Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

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

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-55299

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: 07/28/2025

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 270 FNL / 2030 FEL / TWSP: 26S / RANGE: 33E / SECTION: 30 / LAT: 32.021013 / LONG: -103.609348 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 412 FEL / TWSP: 26S / RANGE: 33E / SECTION: 30 / LAT: 32.021487 / LONG: -103.604136 (TVD: 12246 feet, MD: 12500 feet)

BHL: LOT 5 / 50 FSL / 412 FEL / TWSP: 26S / RANGE: 33E / SECTION: 31 / LAT: 32.000379 / LONG: -103.604104 (TVD: 12370 feet, MD: 20103 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
30-025- 55299	98097	Sanders Tank; Upper Wolfcamp

Property Code	Property Name	Well Number
337730	LIL JOHN FED COM	702H

OGRID No.	Operator Name	Ground Level Elevation
217817	CONOCOPHILLIPS COMPANY	3,172.26'

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
B	30	26S	33E		270' FNL	2,030' FEL	32.021013°	-103.609348°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 5	31	26S	33E		50' FSL	412' FEL	32.000379°	-103.604104°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
942.88	Infill	Pending 704H		Com

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

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	30	26S	33E		270' FNL	2,030' FEL	32.021013°	-103.609348°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	30	26S	33E		100' FNL	412' FEL	32.021487°	-103.604136°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 5	31	26S	33E		100' FSL	412' FEL	32.000516°	-103.604104°	LEA

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

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.

Stan Wagner 2/17/2025

Signature Date

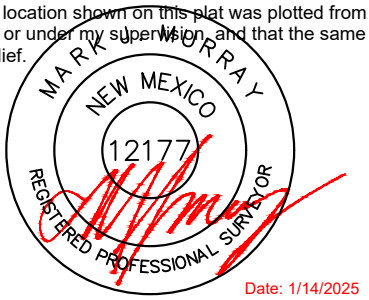
Stan Wagner

Printed Name

Email Address

SURVEYOR CERTIFICATIONS

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



Date: 1/14/2025

Signature and Seal of Professional Surveyor

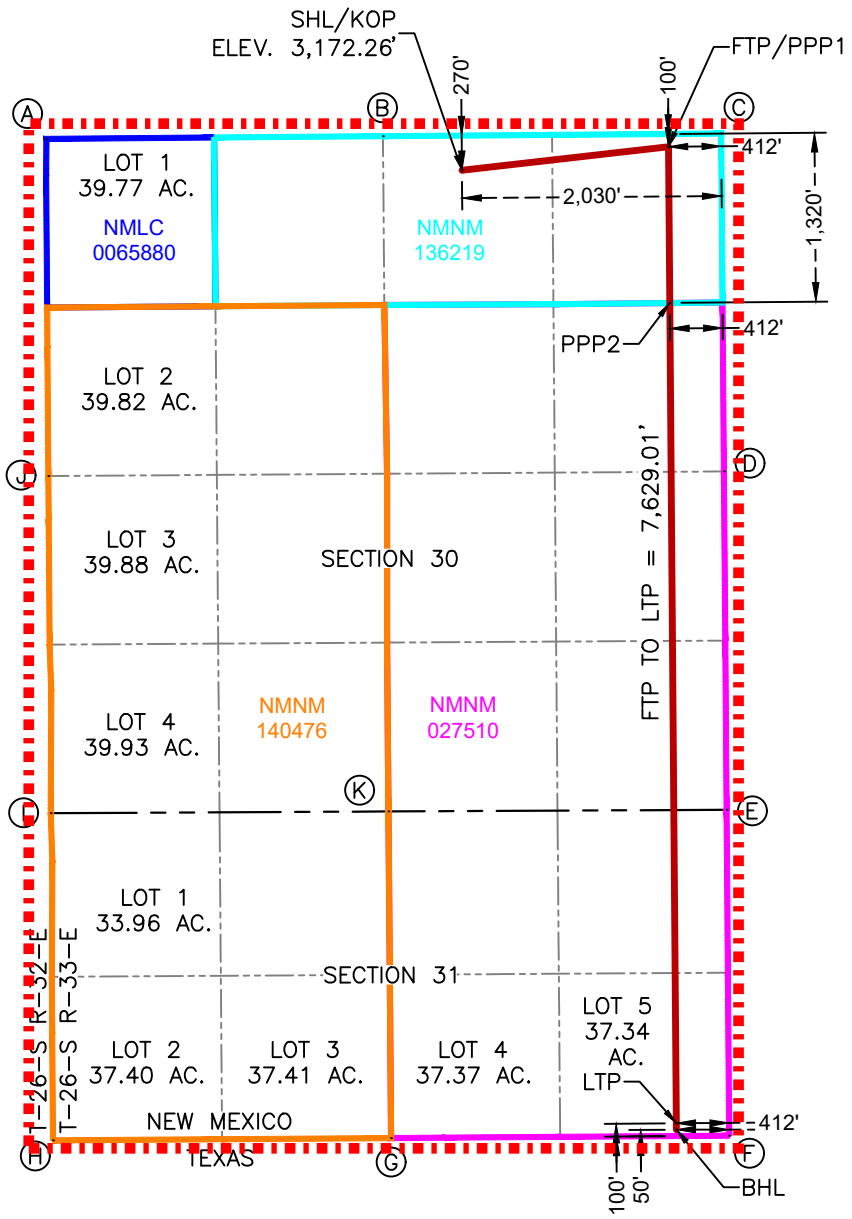
Certificate Number	Date of Survey
12177	1/14/2025

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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



SURFACE HOLE LOCATION
& KICK-OFF POINT
270' FNL & 2,030' FEL
ELEV.=3,172.26'

NAD 83 X = 765,715.81'
NAD 83 Y = 372,135.23'
NAD 83 LAT = 32.021013°
NAD 83 LONG = -103.609348°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FNL & 412' FEL

NAD 83 X = 767,329.88'
NAD 83 Y = 372,318.37'
NAD 83 LAT = 32.021487°
NAD 83 LONG = -103.604136°

PENETRATION POINT 2
1,320' FNL & 412' FEL

NAD 83 X = 767,339.72'
NAD 83 Y = 371,098.68'
NAD 83 LAT = 32.018134°
NAD 83 LONG = -103.604131°

LAST TAKE POINT
100' FSL & 412' FEL

NAD 83 X = 767,391.24'
NAD 83 Y = 364,689.61'
NAD 83 LAT = 32.000516°
NAD 83 LONG = -103.604104°

BOTTOM HOLE LOCATION
50' FSL & 412' FEL

NAD 83 X = 767,391.64'
NAD 83 Y = 364,639.61'
NAD 83 LAT = 32.000379°
NAD 83 LONG = -103.604104°

CORNER COORDINATES NEW MEXICO EAST - NAD 83					
A	IRON PIPE W/BRASS CAP N:372,380.20' E:762,470.65'	E	IRON PIPE W/BRASS CAP N:367,139.19' E:767,783.76'	I	IRON PIPE W/BRASS CAP N:367,112.42' E:762,504.77'
B	IRON PIPE W/BRASS CAP N:372,401.32' E:765,099.31'	F	CALCULATED CORNER N:364,592.46' E:767,804.03'	J	CALCULATED CORNER N:369,745.90' E:762,486.18'
C	IRON PIPE W/BRASS CAP N:372,422.04' E:767,741.09'	G	CALCULATED CORNER N:364,574.24' E:765,163.03'	K	CALCULATED CORNER N:367,125.78' E:765,142.08'
D	IRON PIPE W/BRASS CAP N:369,782.18' E:767,762.94'	H	IRON PIPE W/BRASS CAP N:364,556.12' E:762,522.14'		

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1. Geologic Formations

TVD of target	12,370' EOL	Pilot hole depth:	N/A
MD at TD:	20,103'	Deepest expected fresh water:	220'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	512	Water	
Top of Salt	902	Salt	
Base of Salt	4266	Salt	
Lamar	4516	Salt Water	
Bell Canyon	4615	Salt Water	
Cherry Canyon	5781	Oil/Gas	
Brushy Canyon	7514	Oil/Gas	
Bone Spring	8881	Oil/Gas	
1st Bone Spring Sand	9852	Oil/Gas	
2nd Bone Spring Sand	10492	Oil/Gas	
3rd Bone Spring Sand	11581	Oil/Gas	
Wolfcamp Sand	12025	Oil/Gas	
Wolfcamp A	12217	Target Oil/Gas	
Wolfcamp B	12565	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
14.75"	0	760	10.75"	45.5	J55	BTC	6.01	7.72	20.68	23.02
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	3.84	2.28	2.98	3.01
8.750"	8200	12002	7.625"	29.7	P110-ICY	W513	3.19	1.49	3.00	1.80
6.75"	0	11802	5.5"	23	P110-CY	BTC	3.27	1.95	2.69	2.69
6.75"	11802	20,103	5.5"	23	P110-CY	W441	3.18	1.95	2.56	2.33
				COP Minimum Safety Factor			1.05	1.15	1.4	1.4

2b. Contingtency Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
17.50"	0	760	13.375"	54.5	J55	BTC	3.25	5.88	20.59	21.95
12.25"	0	4420	9.625"	40	L80-IC	BTC	1.83	1.14	5.18	5.36
8.75"	4220	12002	7.625"	29.7	P110-ICY	W513	2.56	1.49	3.00	1.80
6.75"	0	11802	5.5"	23	P110-CY	BTC	3.27	1.95	2.69	2.69
6.75"	11802	20,103	5.5"	23	P110-CY	W441	3.18	1.95	2.56	2.33
				COP Minimum Safety Factor			1.05	1.15	1.4	1.4

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

Contingency program will be run if large water flows are encountered.

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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	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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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	220	12.8	1.75	9	12	Lead: Class C
	190	14.8	1.34	6.34	8	Tail: Class C
Inter. Stage 1	910	10.3	3.3	22	24	Halliburton tuned light
	120	14.8	1.35	6.6	8	Tail: Class H
Prod	750	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

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% OH
1st Intermediate	0’	50% OH
Production	11,502'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	280	13.5	1.75	9	12	Lead: Class C
	240	14.8	1.34	6.34	8	Tail: Class C
Int. #1	960	12.8	1.75	9.21	12	Lead: Class C
	310	14.8	1.35	6.6	8	Tail: Class C
Inter. #2 (Liner)	400	10.5	3.3	22	24	Lead: Class C
	120	14.8	1.35	6.6	8	Tail: Class H
Prod	820	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0’	50% in OH
1st Intermediate	0’	50% in OH
2nd Intermediate	4,220'	50% in OH
Production	11,502'	20% OH in Lateral (KOP to EOL)

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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*		
6-3/4”	13-5/8”	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			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.

Y	Formation integrity test will be performed per Onshore Order #2. 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.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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

5b. Contingency Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8685 psi at 12370' TVD
Abnormal Temperature	NO 180 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?
Y	Is casing pre-set?

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

Affidavit

STATE OF TEXAS)
) ss.
COUNTY MIDLAND)

My name is Robyn Russell. I am the Regulatory Supervisor, Delaware Basin, for ConocoPhillips. To the best of my knowledge and belief, PFAS will not be used in the completion of the well associated with this Application for Permit to Drill.

Robyn Russell

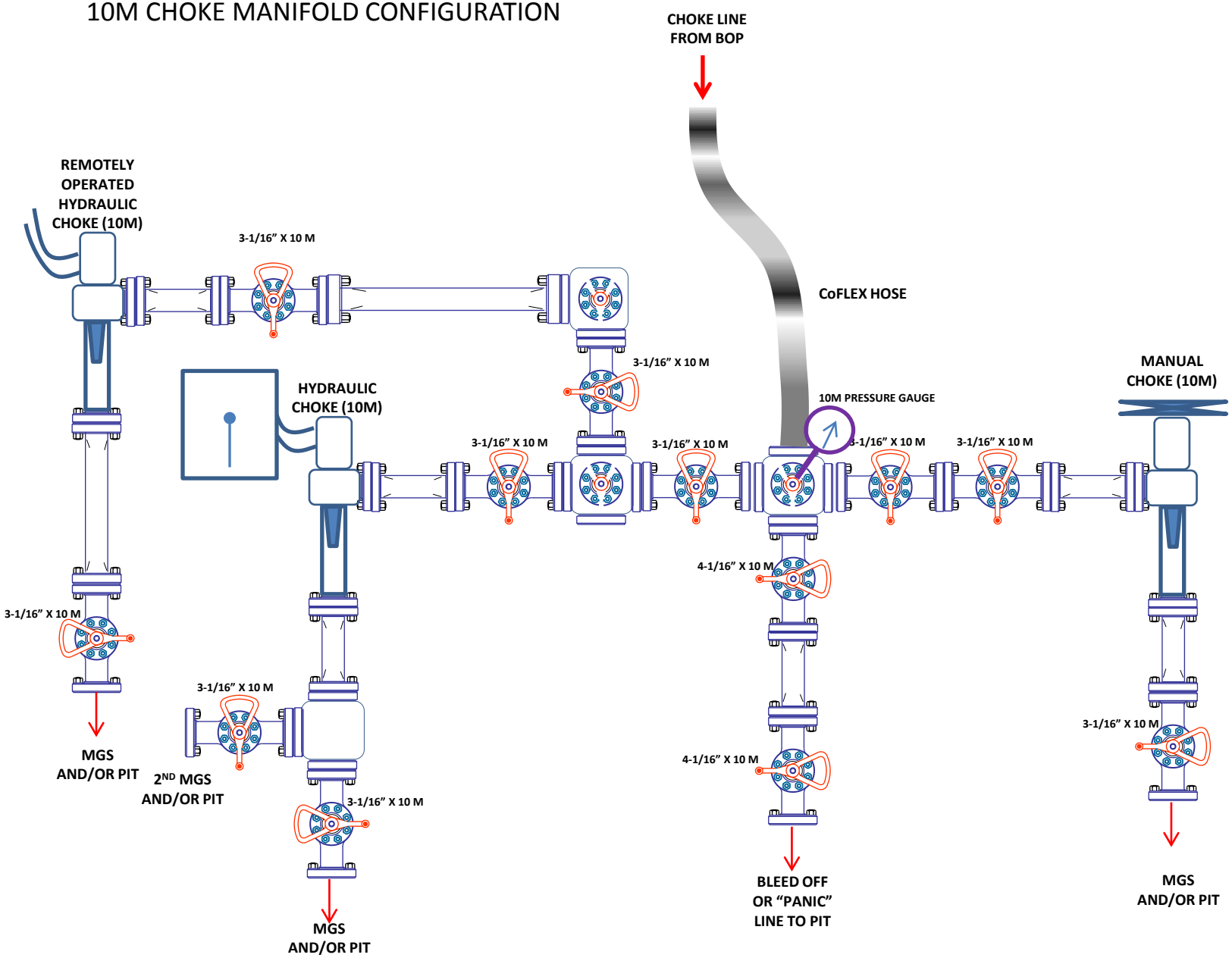
SUBSCRIBED AND SWORN before me this 5th day of August, 2025.

Notary Public of State of Texas

05.05.2026
My Commission Expires:

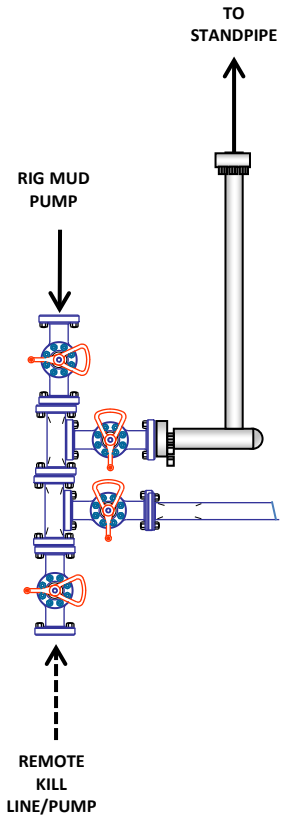
JILL HARPOLD
NOTARY PUBLIC
STATE OF TEXAS
ID 133745232
EXP. 05-05-2026

10M CHOKE MANIFOLD CONFIGURATION

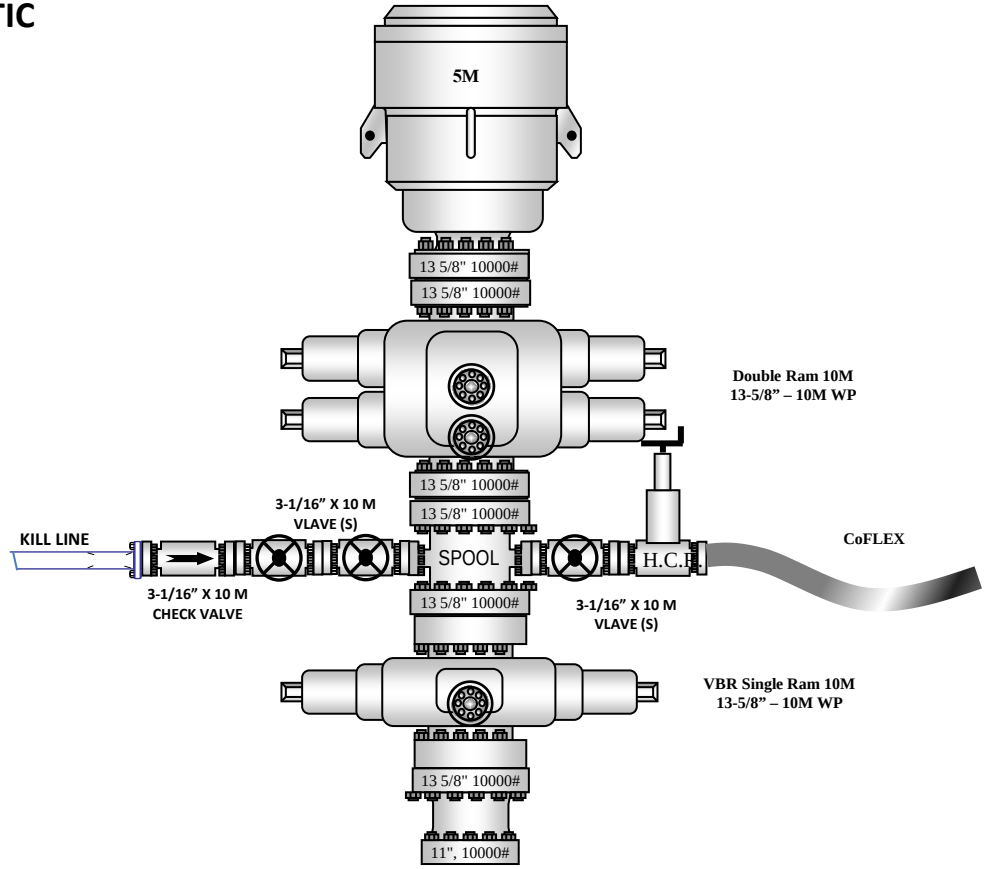


10M BOP Stack

10M REMOTE KILL SCHEMATIC



10M BOP Stack
(5M Annular)



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

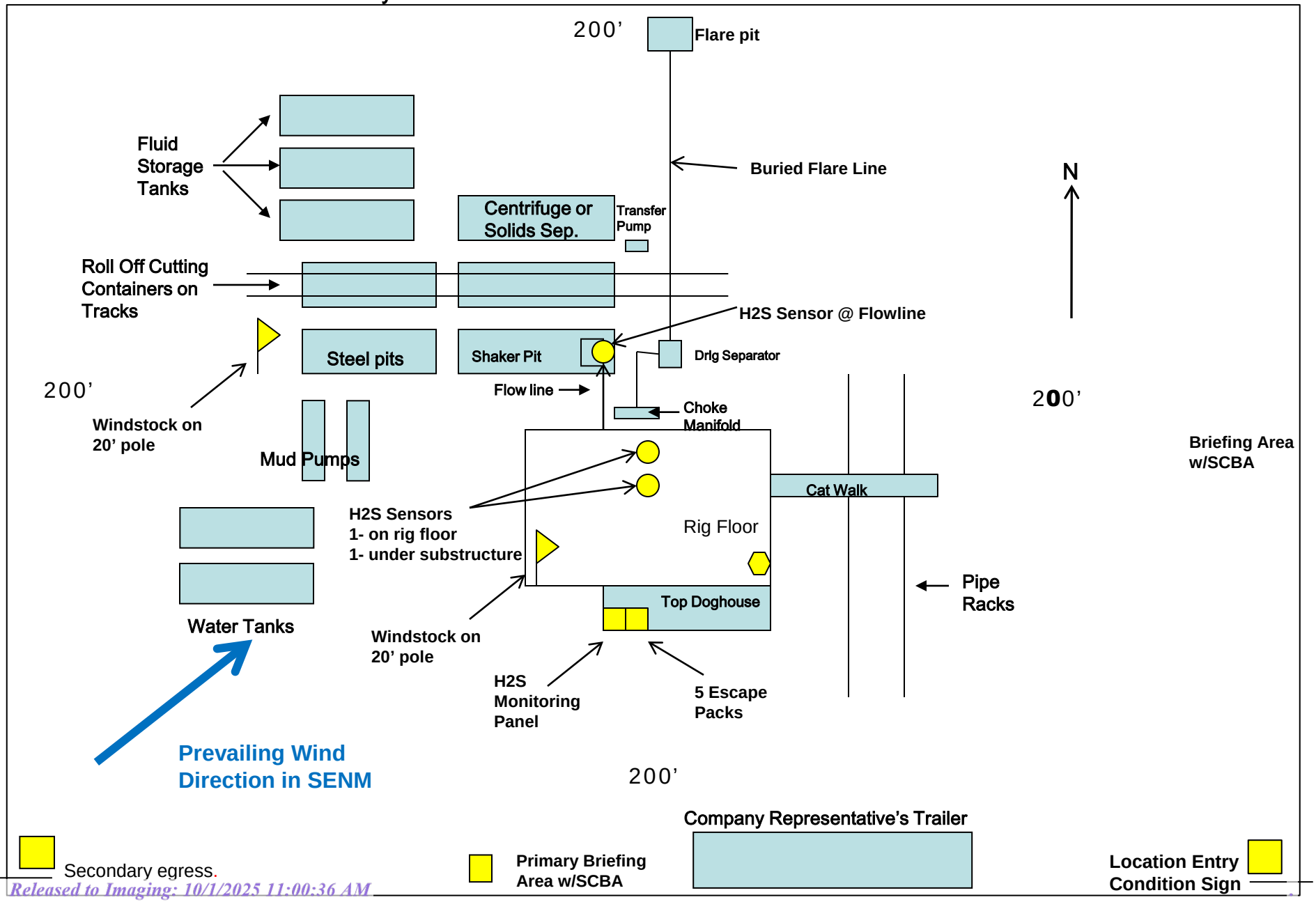
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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

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

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



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA
LIL JOHN FEDERAL PROJECT
_LIL JOHN FED COM 702H

OWB
PWP0

Anticollision Report

04 February, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 2/4/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,103.3	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
Chevron - Mooses Tooth 29 26 33 Fed Com - 33H						
Mooses Tooth 29 26 33 Fed Com - 33H - Original Hole -	9,986.6	9,795.5	633.2	565.0	9.287	CC
Mooses Tooth 29 26 33 Fed Com - 33H - Original Hole -	10,000.0	9,806.3	633.2	565.0	9.279	ES
Mooses Tooth 29 26 33 Fed Com - 33H - Original Hole -	10,100.0	9,871.1	636.2	567.6	9.264	SF
Chevron - Saldo Draw 29 26 33 Federal Com 1H						
Salso Draw 29 26 33 Federal Com 1H - Original Hole - O	9,124.0	9,036.7	664.9	598.7	10.038	CC, ES, SF
Salso Draw 29 26 33 Federal Com 1H - Sidetrack - Sidet	8,865.4	8,755.6	725.6	661.8	11.368	CC, ES
Salso Draw 29 26 33 Federal Com 1H - Sidetrack - Sidet	8,900.0	8,781.0	725.9	662.0	11.363	SF
Chevron - SD EA 29 32 Federal Com P11 13H						
SD EA 29 32 Federal Com P11 - Original Hole - Original	20,062.0	19,790.0	614.7	394.9	2.797	Normal Operations, CC, ES, SF
LIL JOHN FEDERAL OFFSETS						
SD EA 19 FEDERAL P6 5H - OWB - AWP						Out of range
SD EA 19 FEDERAL P6 6H - OWB - AWP						Out of range
SD EA 19 FEDERAL P6 7H - OWB - AWP	12,400.0	13,846.0	685.7	563.1	5.594	SF
SD EA 19 FEDERAL P6 7H - OWB - AWP	12,412.1	13,846.0	685.5	563.1	5.599	CC, ES
LIL JOHN FEDERAL PROJECT						
_LIL JOHN FED COM 701H - OWB - PWP0	1,500.0	1,491.4	30.0	19.3	2.805	Normal Operations, CC, ES, SF
_LIL JOHN FED COM 703H - OWB - PWP0	1,500.0	1,470.0	90.0	80.1	9.130	CC, ES
_LIL JOHN FED COM 703H - OWB - PWP0	1,900.0	1,880.7	95.6	83.9	8.112	SF
_LIL JOHN FED COM 704H - OWB - PWP0	1,500.0	1,470.0	60.0	50.1	6.086	CC, ES
_LIL JOHN FED COM 704H - OWB - PWP0	2,100.0	2,081.1	66.9	53.9	5.156	SF
_LIL JOHN FED COM 705H - OWB - PWP0	1,200.0	1,170.0	149.7	140.9	17.056	CC, ES
_LIL JOHN FED COM 705H - OWB - PWP0	1,500.0	1,460.5	159.4	149.4	15.949	SF
_LIL JOHN FED COM 706H - OWB - PWP0	1,500.0	1,470.0	120.0	110.1	12.174	CC, ES
_LIL JOHN FED COM 706H - OWB - PWP0	1,700.0	1,672.4	125.1	114.4	11.663	SF
_LIL JOHN FED COM 707H - OWB - PWP0						Out of range
_LIL JOHN FED COM 708H - OWB - PWP0						Out of range
Matador - Night King Federal 121H						
Night King Federal 121H - Original Hole - Plan #8	11,115.4	11,029.6	500.9	426.7	6.747	CC, ES
Night King Federal 121H - Original Hole - Plan #8	11,200.0	11,068.2	506.4	431.3	6.742	SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

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
STATE LINE OFFSETS						
EXCELSIOR 7 10H - OWB - AWP						Out of range
EXCELSIOR 7 11H - OWB - AWP						Out of range
EXCELSIOR 7 12H - OWB - AWP						Out of range
EXCELSIOR 7 8H - OWB - AWP						Out of range
EXCELSIOR 7 9H - OWB - AWP						Out of range

Offset Design: Chevron - Mooses Tooth 29 26 33 Fed Com - 33H - Mooses Tooth 29 26 33 Fed Com - 33H - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 115-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
6,500.0	6,333.8	6,330.4	6,312.6	26.2	21.9	11.54	126.3	2,219.9	989.8	942.0	47.85	20.687	
6,600.0	6,430.1	6,427.0	6,409.2	26.7	22.3	11.82	126.8	2,222.0	965.4	916.8	48.65	19.843	
6,700.0	6,526.4	6,525.8	6,507.9	27.2	22.6	12.13	127.2	2,224.1	941.0	891.5	49.45	19.028	
6,800.0	6,622.7	6,623.2	6,605.4	27.7	22.9	12.46	127.6	2,225.9	916.4	866.2	50.26	18.235	
6,900.0	6,719.0	6,717.9	6,700.0	28.2	23.3	12.80	127.8	2,227.9	892.0	840.9	51.06	17.468	
7,000.0	6,815.3	6,813.6	6,795.7	28.6	23.6	13.17	128.0	2,230.0	867.8	815.9	51.87	16.731	
7,100.0	6,911.6	6,910.7	6,892.8	29.1	24.0	13.58	127.9	2,232.2	843.6	791.0	52.66	16.020	
7,143.8	6,953.7	6,953.2	6,935.3	29.4	24.1	13.77	127.8	2,233.1	833.1	780.1	53.00	15.718	
7,200.0	7,007.9	7,007.8	6,989.9	29.6	24.3	13.99	127.7	2,234.3	819.8	766.4	53.44	15.341	
7,300.0	7,104.7	7,105.3	7,087.3	30.1	24.7	14.38	127.2	2,236.4	797.4	743.2	54.22	14.708	
7,400.0	7,201.9	7,203.1	7,185.2	30.6	25.0	14.79	126.6	2,238.5	776.8	721.8	54.99	14.126	
7,500.0	7,299.5	7,301.3	7,283.3	31.1	25.3	15.21	125.8	2,240.5	757.8	702.0	55.75	13.592	
7,600.0	7,397.4	7,399.8	7,381.7	31.5	25.7	15.63	124.8	2,242.5	740.5	684.0	56.50	13.105	
7,700.0	7,495.7	7,498.5	7,480.4	32.0	26.0	16.05	123.6	2,244.5	724.8	667.6	57.24	12.663	
7,800.0	7,594.3	7,597.0	7,578.9	32.4	26.4	16.45	122.5	2,246.4	710.9	653.0	57.98	12.263	
7,900.0	7,693.2	7,695.8	7,677.7	32.9	26.7	16.80	121.7	2,248.5	698.8	640.1	58.70	11.905	
8,000.0	7,792.3	7,794.9	7,776.7	33.3	27.1	17.11	121.1	2,250.6	688.4	629.0	59.41	11.586	
8,100.0	7,891.7	7,898.3	7,880.1	33.7	27.5	17.39	120.6	2,252.8	679.5	619.4	60.09	11.308	
8,200.0	7,991.2	8,006.3	7,988.1	34.1	27.9	17.67	120.1	2,253.9	671.3	610.6	60.71	11.057	
8,300.0	8,090.9	8,110.4	8,092.3	34.5	28.2	17.90	119.6	2,253.9	663.7	602.4	61.34	10.821	
8,400.0	8,190.7	8,213.5	8,195.3	34.9	28.6	18.03	120.0	2,253.5	657.3	595.3	61.97	10.607	
8,500.0	8,290.6	8,312.2	8,294.0	35.2	28.9	18.10	120.4	2,252.9	652.4	589.8	62.60	10.421	
8,600.0	8,390.5	8,411.9	8,393.8	35.5	29.2	18.16	120.6	2,252.5	649.3	586.1	63.20	10.273	
8,700.0	8,490.5	8,514.2	8,496.0	35.6	29.6	18.15	121.1	2,251.9	647.6	584.0	63.64	10.176	
8,709.5	8,500.0	8,523.9	8,505.7	35.6	29.6	99.94	121.2	2,251.8	647.5	583.8	63.69	10.167	
8,800.0	8,590.5	8,615.7	8,597.5	35.7	29.9	99.89	121.8	2,251.0	646.6	582.6	63.99	10.105	
8,900.0	8,690.5	8,716.5	8,698.3	35.7	30.3	99.91	121.8	2,249.8	645.5	581.1	64.32	10.035	
9,000.0	8,790.5	8,814.9	8,796.7	35.7	30.6	99.98	121.2	2,248.6	644.3	579.7	64.67	9.963	
9,100.0	8,890.5	8,912.6	8,894.4	35.7	31.0	100.02	120.9	2,247.7	643.5	578.5	65.03	9.895	
9,200.0	8,990.5	9,014.3	8,996.1	35.8	31.3	100.03	120.9	2,247.0	642.8	577.5	65.37	9.834	
9,300.0	9,090.5	9,116.0	9,097.8	35.8	31.7	100.04	121.1	2,246.0	641.8	576.1	65.71	9.768	
9,400.0	9,190.5	9,215.7	9,197.5	35.8	32.0	100.05	121.1	2,244.9	640.7	574.6	66.06	9.699	
9,500.0	9,290.5	9,316.4	9,298.2	35.8	32.3	100.09	120.9	2,243.7	639.6	573.2	66.40	9.632	
9,600.0	9,390.5	9,418.6	9,400.4	35.9	32.7	100.09	121.1	2,242.3	638.2	571.5	66.74	9.562	
9,700.0	9,490.5	9,517.2	9,499.0	35.9	33.0	100.07	121.5	2,240.8	636.7	569.6	67.12	9.486	
9,800.0	9,590.5	9,613.6	9,595.4	35.9	33.4	100.14	121.0	2,239.7	635.6	568.1	67.50	9.416	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - Mooses Tooth 29 26 33 Fed Com - 33H - Mooses Tooth 29 26 33 Fed Com - 33H - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 115-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
9,900.0	9,690.5	9,724.6	9,706.3	36.0	33.8	100.26	120.0	2,238.0	634.3	566.5	67.76	9.361	
9,986.6	9,777.1	9,795.5	9,777.1	36.0	34.0	100.48	117.7	2,236.6	633.2	565.0	68.18	9.287 CC	
10,000.0	9,790.5	9,806.3	9,788.0	36.0	34.0	100.55	116.9	2,236.5	633.2	565.0	68.24	9.279 ES	
10,100.0	9,890.5	9,871.1	9,852.1	36.0	34.3	101.31	108.3	2,236.8	636.2	567.6	68.68	9.264 SF	
10,200.0	9,990.5	9,947.8	9,926.4	36.0	34.5	102.89	89.8	2,239.6	644.9	576.1	68.85	9.367	
10,300.0	10,090.5	10,041.5	10,013.9	36.1	34.9	105.74	56.3	2,240.7	655.6	586.8	68.78	9.531	
10,400.0	10,190.5	10,083.0	10,050.9	36.1	35.0	107.33	37.6	2,239.9	670.4	601.8	68.59	9.774	
10,500.0	10,290.5	10,169.4	10,122.9	36.1	35.3	111.29	-10.0	2,237.4	689.7	621.7	68.04	10.137	
10,600.0	10,390.5	10,216.5	10,158.7	36.2	35.5	113.72	-40.5	2,236.2	718.0	650.8	67.22	10.682	
10,700.0	10,490.5	10,257.0	10,187.3	36.2	35.6	115.93	-69.2	2,235.1	754.3	688.2	66.11	11.409	
10,800.0	10,590.5	10,292.0	10,210.3	36.2	35.7	117.90	-95.5	2,234.3	798.2	733.4	64.81	12.317	
10,900.0	10,690.5	10,322.3	10,228.8	36.2	35.8	119.63	-119.5	2,233.7	849.3	785.9	63.41	13.394	
11,000.0	10,790.5	10,348.6	10,243.7	36.3	35.9	121.14	-141.1	2,233.1	906.7	844.7	62.00	14.625	
11,100.0	10,890.5	10,371.5	10,255.9	36.3	36.0	122.46	-160.6	2,232.7	969.6	909.0	60.65	15.988	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - Saldo Draw 29 26 33 Federal Com 1H - Salso Draw 29 26 33 Federal Com 1H - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 185-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
7,700.0	7,495.7	7,746.1	7,670.0	32.0	29.1	9.37	207.8	2,509.9	999.0	941.9	57.13	17.487	
7,800.0	7,594.3	7,842.2	7,764.6	32.4	29.5	9.47	208.0	2,493.0	965.5	907.7	57.87	16.684	
7,900.0	7,693.2	7,939.2	7,860.1	32.9	29.9	9.55	208.7	2,475.8	933.5	874.9	58.60	15.929	
8,000.0	7,792.3	8,036.9	7,956.2	33.3	30.3	9.60	209.7	2,458.2	902.8	843.5	59.32	15.219	
8,100.0	7,891.7	8,134.7	8,052.3	33.7	30.8	9.60	211.1	2,440.4	873.5	813.5	60.03	14.550	
8,200.0	7,991.2	8,232.8	8,148.8	34.1	31.2	9.55	213.1	2,422.3	845.6	784.9	60.74	13.923	
8,300.0	8,090.9	8,319.7	8,234.2	34.5	31.6	9.48	215.0	2,406.6	819.8	758.2	61.59	13.311	
8,400.0	8,190.7	8,410.0	8,323.2	34.9	32.0	9.41	216.6	2,391.4	796.9	734.5	62.39	12.772	
8,500.0	8,290.6	8,514.9	8,426.6	35.2	32.4	9.38	217.7	2,373.7	775.6	712.6	62.96	12.318	
8,600.0	8,390.5	8,614.6	8,524.7	35.5	32.9	9.39	217.9	2,355.7	754.9	691.3	63.57	11.874	
8,700.0	8,490.5	8,700.1	8,608.9	35.6	33.3	9.39	217.9	2,341.3	737.0	672.8	64.27	11.468	
8,709.5	8,500.0	8,709.0	8,617.8	35.6	33.3	91.18	217.9	2,339.9	735.5	671.2	64.32	11.434	
8,800.0	8,590.5	8,893.5	8,794.3	35.7	34.1	93.36	192.7	2,298.8	715.6	652.8	62.76	11.402	
8,900.0	8,690.5	8,945.6	8,840.1	35.7	34.4	95.19	172.0	2,284.8	689.9	625.9	64.05	10.771	
9,000.0	8,790.5	8,986.5	8,874.6	35.7	34.5	96.98	151.7	2,276.6	672.8	607.5	65.31	10.302	
9,100.0	8,890.5	9,027.3	8,907.5	35.7	34.7	99.05	128.3	2,270.8	665.2	599.1	66.12	10.061	
9,124.0	8,914.5	9,036.7	8,914.7	35.8	34.7	99.56	122.4	2,269.7	664.9	598.7	66.24	10.038	CC, ES, SF
9,200.0	8,990.5	9,065.3	8,935.9	35.8	34.8	101.22	103.4	2,267.1	668.0	601.6	66.40	10.061	
9,300.0	9,090.5	9,098.0	8,958.5	35.8	34.8	103.22	79.9	2,265.1	681.7	615.6	66.06	10.319	
9,400.0	9,190.5	9,142.0	8,986.4	35.8	34.9	106.07	45.9	2,263.2	705.7	640.6	65.15	10.832	
9,500.0	9,290.5	9,186.0	9,011.5	35.8	35.0	109.01	9.8	2,261.5	739.5	675.6	63.85	11.582	
9,600.0	9,390.5	9,212.2	9,025.1	35.9	35.1	110.80	-12.6	2,260.3	782.0	719.8	62.17	12.577	
9,700.0	9,490.5	9,240.7	9,038.7	35.9	35.1	112.75	-37.5	2,258.9	832.6	772.2	60.37	13.791	
9,800.0	9,590.5	9,275.0	9,053.7	35.9	35.2	115.10	-68.3	2,257.1	890.2	831.6	58.62	15.187	
9,900.0	9,690.5	9,275.0	9,053.7	36.0	35.2	115.10	-68.3	2,257.1	953.9	897.2	56.69	16.825	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - Saldo Draw 29 26 33 Federal Com 1H - Salso Draw 29 26 33 Federal Com 1H - Sidetrack - Sidetrack

Offset Site Error: 0.0 usft

Survey Program: 185-MWD - OWSG, 8261-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
7,700.0	7,495.7	7,746.1	7,670.0	32.0	29.1	9.37	207.8	2,509.9	999.0	941.9	57.13	17.487	
7,800.0	7,594.3	7,842.2	7,764.6	32.4	29.5	9.47	208.0	2,493.0	965.5	907.7	57.87	16.684	
7,900.0	7,693.2	7,939.2	7,860.1	32.9	29.9	9.55	208.7	2,475.8	933.5	874.9	58.60	15.929	
8,000.0	7,792.3	8,036.9	7,956.2	33.3	30.3	9.60	209.7	2,458.2	902.8	843.5	59.32	15.219	
8,100.0	7,891.7	8,134.7	8,052.3	33.7	30.8	9.60	211.1	2,440.4	873.5	813.5	60.03	14.550	
8,200.0	7,991.2	8,256.9	8,172.1	34.1	31.1	9.82	209.8	2,416.4	844.6	784.4	60.20	14.031	
8,300.0	8,090.9	8,359.6	8,272.1	34.5	31.3	10.52	201.5	2,394.2	815.6	755.2	60.40	13.504	
8,400.0	8,190.7	8,458.9	8,368.4	34.9	31.4	10.37	204.7	2,370.5	785.5	724.8	60.70	12.942	
8,500.0	8,290.6	8,516.0	8,423.9	35.2	31.5	10.82	199.3	2,359.0	761.3	699.5	61.83	12.314	
8,600.0	8,390.5	8,580.4	8,486.1	35.5	31.5	11.86	186.2	2,349.0	743.6	680.9	62.69	11.863	
8,700.0	8,490.5	8,645.7	8,549.2	35.6	31.6	13.05	171.3	2,341.2	732.1	668.8	63.30	11.566	
8,709.5	8,500.0	8,651.7	8,555.1	35.6	31.6	94.95	169.9	2,340.6	731.3	668.0	63.35	11.544	
8,800.0	8,590.5	8,710.9	8,612.5	35.7	31.6	96.06	156.3	2,336.3	726.6	662.9	63.68	11.411	
8,865.4	8,655.9	8,755.6	8,655.9	35.7	31.7	96.88	146.0	2,334.4	725.6	661.8	63.83	11.368 CC, ES	
8,900.0	8,690.5	8,781.0	8,680.6	35.7	31.7	97.34	140.1	2,333.9	725.9	662.0	63.88	11.363 SF	
9,000.0	8,790.5	8,862.1	8,759.4	35.7	31.7	98.88	120.6	2,333.2	728.5	664.6	63.91	11.399	
9,100.0	8,890.5	8,914.0	8,808.5	35.7	31.7	100.15	104.1	2,333.7	735.6	671.7	63.99	11.497	
9,200.0	8,990.5	8,973.6	8,863.2	35.8	31.7	101.92	80.4	2,336.3	749.1	685.3	63.80	11.742	
9,300.0	9,090.5	9,024.5	8,907.8	35.8	31.7	103.65	56.5	2,340.5	769.6	706.1	63.40	12.137	
9,400.0	9,190.5	9,076.7	8,951.4	35.8	31.8	105.63	28.2	2,345.7	796.5	733.7	62.79	12.684	
9,500.0	9,290.5	9,126.4	8,989.8	35.8	31.8	107.75	-2.9	2,350.4	829.6	767.6	61.98	13.385	
9,600.0	9,390.5	9,165.1	9,017.2	35.9	31.8	109.57	-30.0	2,353.6	869.2	808.2	60.93	14.264	
9,700.0	9,490.5	9,197.4	9,038.0	35.9	31.9	111.19	-54.7	2,356.0	915.4	855.7	59.72	15.329	
9,800.0	9,590.5	9,227.0	9,055.3	35.9	31.9	112.72	-78.6	2,357.8	967.9	909.5	58.42	16.567	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - SD EA 29 32 Federal Com P11 13H - SD EA 29 32 Federal Com P11 - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 33-MWD - OWSG

Offset Well Error: 0.0 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)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
6,900.0	6,719.0	6,795.1	6,744.8	28.2	25.0	2.37	295.9	2,325.7	992.9	940.7	52.21	19.020	
7,000.0	6,815.3	6,889.5	6,839.2	28.6	25.3	2.40	296.2	2,323.3	963.5	910.5	53.04	18.168	
7,100.0	6,911.6	6,985.1	6,934.7	29.1	25.6	2.45	296.4	2,320.9	934.2	880.3	53.86	17.344	
7,143.8	6,953.7	7,026.7	6,976.3	29.4	25.8	2.47	296.4	2,319.9	921.3	867.1	54.22	16.993	
7,200.0	7,007.9	7,080.1	7,029.7	29.6	26.0	2.49	296.4	2,318.6	905.1	850.5	54.68	16.554	
7,300.0	7,104.7	7,178.0	7,127.5	30.1	26.3	2.53	296.5	2,316.1	877.5	822.1	55.49	15.814	
7,400.0	7,201.9	7,274.9	7,224.4	30.6	26.7	2.56	296.7	2,313.5	851.5	795.2	56.31	15.123	
7,500.0	7,299.5	7,370.1	7,319.6	31.1	27.0	2.61	296.5	2,311.1	827.2	770.1	57.13	14.481	
7,600.0	7,397.4	7,465.7	7,415.2	31.5	27.3	2.71	295.6	2,309.0	804.9	747.0	57.94	13.893	
7,700.0	7,495.7	7,564.0	7,513.5	32.0	27.7	2.85	294.3	2,306.9	784.3	725.6	58.72	13.357	
7,800.0	7,594.3	7,661.3	7,610.7	32.4	28.0	3.01	292.7	2,304.9	765.5	706.0	59.50	12.865	
7,900.0	7,693.2	7,757.3	7,706.7	32.9	28.3	3.19	290.8	2,303.1	748.6	688.3	60.28	12.418	
8,000.0	7,792.3	7,852.6	7,801.9	33.3	28.7	3.39	288.8	2,301.9	734.0	672.9	61.06	12.021	
8,100.0	7,891.7	7,951.9	7,901.3	33.7	29.0	3.59	286.7	2,300.7	721.1	659.3	61.79	11.671	
8,200.0	7,991.2	8,048.1	7,997.4	34.1	29.3	3.78	284.7	2,299.7	710.3	647.8	62.53	11.359	
8,300.0	8,090.9	8,146.4	8,095.7	34.5	29.6	4.01	282.4	2,299.3	701.7	638.4	63.24	11.096	
8,400.0	8,190.7	8,249.6	8,198.8	34.9	30.0	4.23	280.0	2,298.4	694.4	630.5	63.89	10.869	
8,500.0	8,290.6	8,349.3	8,298.6	35.2	30.3	4.41	278.1	2,297.4	688.7	624.2	64.54	10.671	
8,600.0	8,390.5	8,449.8	8,399.0	35.5	30.7	4.60	275.9	2,296.3	684.8	619.6	65.15	10.511	
8,700.0	8,490.5	8,548.6	8,497.8	35.6	31.0	4.79	273.7	2,295.3	682.5	616.9	65.62	10.401	
8,709.5	8,500.0	8,557.9	8,507.0	35.6	31.0	86.59	273.5	2,295.2	682.4	616.7	65.66	10.393	
8,800.0	8,590.5	8,650.0	8,599.1	35.7	31.3	86.77	271.3	2,294.3	681.4	615.5	65.95	10.333	
8,900.0	8,690.5	8,751.4	8,700.5	35.7	31.7	86.95	269.1	2,293.0	680.0	613.8	66.27	10.262	
9,000.0	8,790.5	8,849.8	8,798.9	35.7	32.0	87.14	266.8	2,291.8	678.6	612.0	66.62	10.187	
9,100.0	8,890.5	8,951.2	8,900.2	35.7	32.4	87.31	264.7	2,290.6	677.3	610.4	66.94	10.118	
9,200.0	8,990.5	9,053.4	9,002.4	35.8	32.7	87.42	263.3	2,289.0	675.8	608.5	67.28	10.044	
9,300.0	9,090.5	9,153.8	9,102.8	35.8	33.1	87.51	262.2	2,287.3	674.0	606.4	67.63	9.966	
9,400.0	9,190.5	9,260.6	9,209.5	35.8	33.5	87.54	261.7	2,284.8	671.7	603.7	67.94	9.886	
9,500.0	9,290.5	9,363.8	9,312.7	35.8	33.8	87.52	261.8	2,281.5	668.4	600.1	68.28	9.789	
9,600.0	9,390.5	9,461.4	9,410.3	35.9	34.2	87.48	262.2	2,278.4	665.3	596.6	68.67	9.688	
9,700.0	9,490.5	9,555.3	9,504.1	35.9	34.5	87.44	262.5	2,275.8	662.6	593.5	69.09	9.590	
9,800.0	9,590.5	9,646.4	9,595.2	35.9	34.8	87.43	262.5	2,274.7	661.4	591.8	69.52	9.514	
9,900.0	9,690.5	9,743.7	9,692.5	36.0	35.2	87.48	262.0	2,274.3	661.0	591.1	69.90	9.456	
10,000.0	9,790.5	9,846.4	9,795.2	36.0	35.5	87.52	261.5	2,273.9	660.5	590.3	70.25	9.403	
10,100.0	9,890.5	9,948.5	9,897.3	36.0	35.9	87.59	260.6	2,273.0	659.6	589.0	70.60	9.343	
10,200.0	9,990.5	10,051.4	10,000.2	36.0	36.2	87.66	259.7	2,271.8	658.4	587.4	70.95	9.279	
10,300.0	10,090.5	10,152.6	10,101.4	36.1	36.6	87.65	259.9	2,270.2	656.8	585.5	71.33	9.208	
10,400.0	10,190.5	10,254.7	10,203.5	36.1	37.0	87.60	260.3	2,268.3	655.0	583.3	71.70	9.136	
10,500.0	10,290.5	10,355.2	10,303.9	36.1	37.3	87.58	260.5	2,266.3	653.0	580.9	72.08	9.059	
10,600.0	10,390.5	10,454.5	10,403.2	36.2	37.7	87.56	260.7	2,264.3	651.0	578.5	72.47	8.982	
10,700.0	10,490.5	10,551.6	10,500.3	36.2	38.0	87.49	261.4	2,262.6	649.2	576.4	72.88	8.909	
10,800.0	10,590.5	10,652.3	10,601.0	36.2	38.4	87.38	262.5	2,261.0	647.7	574.4	73.27	8.841	
10,900.0	10,690.5	10,753.8	10,702.4	36.2	38.7	87.27	263.6	2,259.1	645.9	572.2	73.65	8.769	
11,000.0	10,790.5	10,850.5	10,799.2	36.3	39.1	87.21	264.3	2,257.5	644.3	570.3	74.06	8.700	
11,100.0	10,890.5	10,950.9	10,899.5	36.3	39.4	87.17	264.6	2,256.2	643.0	568.5	74.45	8.636	
11,200.0	10,990.5	11,052.1	11,000.7	36.3	39.8	87.18	264.4	2,254.7	641.5	566.7	74.84	8.572	
11,300.0	11,090.5	11,153.2	11,101.8	36.4	40.2	87.17	264.5	2,252.9	639.8	564.6	75.23	8.504	
11,400.0	11,190.5	11,255.1	11,203.7	36.4	40.5	87.14	264.8	2,251.1	638.0	562.3	75.62	8.436	
11,500.0	11,290.5	11,355.1	11,303.6	36.4	40.9	87.05	265.6	2,248.8	635.8	559.7	76.02	8.363	
11,600.0	11,390.5	11,453.7	11,402.2	36.4	41.2	86.91	267.1	2,246.9	633.9	557.4	76.44	8.293	
11,700.0	11,490.5	11,555.3	11,503.8	36.5	41.6	86.75	268.7	2,244.8	631.9	555.1	76.84	8.224	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - SD EA 29 32 Federal Com P11 13H - SD EA 29 32 Federal Com P11 - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 33-MWD - OWSG

Offset Well Error: 0.0 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
11,800.0	11,590.5	11,654.4	11,602.9	36.5	41.9	86.64	269.8	2,242.7	629.9	552.6	77.25	8.154	
11,895.0	11,685.6	11,737.1	11,685.6	36.5	42.2	86.74	268.7	2,241.7	628.7	551.0	77.67	8.095	
11,900.0	11,690.5	11,741.1	11,689.6	36.5	42.2	86.76	268.4	2,241.7	628.7	551.0	77.69	8.093	
12,000.0	11,790.5	11,835.7	11,782.9	36.6	42.5	88.08	254.0	2,243.3	629.7	551.6	78.02	8.071	
12,100.0	11,890.5	11,932.6	11,875.3	36.6	42.8	90.68	225.4	2,245.9	632.1	553.8	78.25	8.077	
12,102.0	11,892.5	11,934.1	11,876.8	36.6	42.8	90.73	224.9	2,245.9	632.1	553.9	78.26	8.077	
12,125.0	11,915.5	11,951.6	11,893.0	36.6	42.9	-88.18	218.4	2,246.3	632.8	554.5	78.31	8.080	
12,150.0	11,940.4	11,967.0	11,907.2	36.6	42.9	-87.63	212.5	2,246.7	633.8	555.4	78.38	8.086	
12,175.0	11,965.2	11,990.0	11,928.3	36.6	43.0	-86.90	203.3	2,247.5	634.9	556.5	78.42	8.096	
12,200.0	11,989.8	12,009.3	11,945.8	36.5	43.0	-86.30	195.3	2,248.2	636.3	557.8	78.48	8.107	
12,225.0	12,014.2	12,028.6	11,963.2	36.5	43.1	-85.74	186.8	2,249.2	637.8	559.2	78.54	8.121	
12,250.0	12,038.2	12,048.0	11,980.3	36.5	43.1	-85.23	178.0	2,250.2	639.4	560.8	78.60	8.135	
12,275.0	12,061.8	12,062.0	11,992.7	36.5	43.2	-84.81	171.3	2,251.0	641.2	562.6	78.66	8.152	
12,300.0	12,084.9	12,082.8	12,010.7	36.5	43.2	-84.34	161.1	2,252.4	643.2	564.4	78.72	8.170	
12,325.0	12,107.5	12,099.0	12,024.5	36.5	43.2	-83.93	152.6	2,253.7	645.3	566.5	78.78	8.192	
12,350.0	12,129.5	12,115.2	12,038.0	36.4	43.3	-83.54	143.8	2,255.2	647.7	568.9	78.83	8.216	
12,375.0	12,150.9	12,131.4	12,051.2	36.4	43.3	-83.16	134.6	2,256.8	650.3	571.4	78.89	8.243	
12,400.0	12,171.5	12,156.0	12,070.8	36.4	43.4	-82.78	119.9	2,259.6	653.1	574.1	78.97	8.270	
12,425.0	12,191.4	12,156.0	12,070.8	36.4	43.4	-82.43	119.9	2,259.6	656.0	577.0	78.97	8.307	
12,450.0	12,210.5	12,183.9	12,092.2	36.4	43.4	-82.13	102.3	2,263.1	658.8	579.8	79.07	8.332	
12,475.0	12,228.7	12,202.8	12,106.1	36.4	43.4	-81.83	89.7	2,265.5	661.9	582.7	79.14	8.363	
12,500.0	12,246.0	12,221.7	12,119.6	36.4	43.5	-81.56	76.8	2,268.0	664.9	585.7	79.22	8.393	
12,525.0	12,262.3	12,251.0	12,139.5	36.4	43.5	-81.39	55.8	2,272.1	668.1	588.7	79.34	8.421	
12,550.0	12,277.6	12,261.7	12,146.5	36.4	43.5	-81.12	47.8	2,273.6	671.1	591.7	79.39	8.453	
12,575.0	12,291.9	12,285.5	12,161.4	36.4	43.6	-80.96	29.5	2,276.9	674.0	594.5	79.49	8.479	
12,600.0	12,305.0	12,309.5	12,175.3	36.4	43.6	-80.81	10.2	2,280.0	676.8	597.2	79.59	8.503	
12,625.0	12,317.0	12,333.6	12,188.3	36.4	43.7	-80.68	-9.9	2,283.0	679.4	599.7	79.70	8.525	
12,650.0	12,327.9	12,359.2	12,200.7	36.4	43.7	-80.56	-32.0	2,285.9	681.8	602.0	79.81	8.543	
12,675.0	12,337.5	12,386.0	12,212.5	36.4	43.7	-80.48	-56.0	2,288.7	684.0	604.1	79.92	8.558	
12,700.0	12,346.0	12,413.1	12,223.0	36.4	43.8	-80.41	-80.8	2,291.2	685.8	605.8	80.04	8.569	
12,725.0	12,353.2	12,440.2	12,232.1	36.4	43.9	-80.36	-106.3	2,293.3	687.4	607.2	80.15	8.576	
12,750.0	12,359.1	12,467.3	12,239.6	36.4	43.9	-80.33	-132.2	2,295.1	688.7	608.4	80.26	8.580	
12,775.0	12,363.8	12,494.5	12,245.7	36.4	44.0	-80.32	-158.7	2,296.6	689.6	609.3	80.38	8.580	
12,800.0	12,367.1	12,521.8	12,250.3	36.4	44.1	-80.33	-185.5	2,297.7	690.3	609.8	80.49	8.576	
12,825.0	12,369.2	12,551.5	12,253.7	36.5	44.2	-80.38	-215.0	2,298.5	690.7	610.0	80.61	8.568	
12,852.0	12,370.0	12,586.0	12,256.1	36.5	44.3	-80.51	-249.5	2,298.9	690.5	609.8	80.75	8.552	
12,900.0	12,370.0	12,649.1	12,256.7	36.5	44.5	-80.53	-312.6	2,297.9	689.3	608.3	80.98	8.512	
13,000.0	12,370.0	12,770.3	12,259.4	36.7	44.9	-80.67	-433.6	2,292.1	683.4	601.8	81.55	8.380	
13,100.0	12,370.0	12,876.8	12,262.9	36.8	45.4	-80.86	-539.8	2,286.0	676.5	594.3	82.18	8.231	
13,200.0	12,370.0	12,990.9	12,267.0	37.0	46.0	-81.08	-653.5	2,277.0	667.2	584.3	82.90	8.048	
13,300.0	12,370.0	13,078.2	12,270.0	37.2	46.4	-81.23	-740.4	2,269.7	657.7	574.0	83.68	7.860	
13,400.0	12,370.0	13,160.9	12,272.1	37.4	46.9	-81.35	-823.0	2,265.4	651.3	566.8	84.50	7.707	
13,500.0	12,370.0	13,255.9	12,274.8	37.7	47.5	-81.52	-917.9	2,261.6	646.1	560.7	85.42	7.564	
13,600.0	12,370.0	13,347.8	12,276.3	38.0	48.1	-81.60	-1,009.7	2,258.7	642.0	555.7	86.39	7.432	
13,700.0	12,370.0	13,438.9	12,276.2	38.3	48.8	-81.56	-1,100.8	2,256.8	639.2	551.8	87.39	7.315	
13,800.0	12,370.0	13,536.1	12,276.2	38.6	49.5	-81.55	-1,198.0	2,256.2	637.8	549.4	88.50	7.208	
13,900.0	12,370.0	13,638.3	12,276.5	38.9	50.3	-81.54	-1,300.1	2,254.3	635.1	545.4	89.70	7.081	
13,956.3	12,370.0	13,682.0	12,276.5	39.1	50.7	-81.53	-1,343.9	2,254.2	634.6	544.3	90.30	7.027	
14,000.0	12,370.0	13,723.5	12,276.3	39.3	51.0	-81.51	-1,385.3	2,254.7	634.8	543.9	90.84	6.988	
14,100.0	12,370.0	13,830.5	12,275.9	39.7	51.9	-81.48	-1,492.4	2,255.3	634.6	542.3	92.21	6.881	
14,200.0	12,370.0	13,930.8	12,275.8	40.1	52.9	-81.45	-1,592.6	2,255.0	633.5	539.9	93.58	6.769	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - SD EA 29 32 Federal Com P11 13H - SD EA 29 32 Federal Com P11 - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 33-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
14,279.2	12,370.0	14,004.9	12,276.1	40.4	53.5	-81.48	-1,666.8	2,255.3	633.2	538.5	94.66	6.689	
14,300.0	12,370.0	14,024.3	12,276.3	40.5	53.7	-81.49	-1,686.2	2,255.5	633.2	538.3	94.94	6.670	
14,400.0	12,370.0	14,127.6	12,277.5	40.9	54.7	-81.60	-1,789.5	2,256.9	633.6	537.1	96.43	6.570	
14,500.0	12,370.0	14,228.9	12,278.8	41.4	55.7	-81.71	-1,890.8	2,256.9	632.5	534.6	97.96	6.458	
14,517.1	12,370.0	14,242.8	12,278.9	41.4	55.9	-81.72	-1,904.7	2,256.9	632.5	534.3	98.19	6.442	
14,600.0	12,370.0	14,314.8	12,279.5	41.8	56.6	-81.78	-1,976.7	2,258.3	633.3	533.9	99.36	6.374	
14,700.0	12,370.0	14,410.6	12,280.5	42.3	57.6	-81.90	-2,072.4	2,261.4	635.6	534.7	100.91	6.298	
14,800.0	12,370.0	14,524.1	12,281.5	42.8	58.9	-82.02	-2,185.8	2,264.4	637.3	534.5	102.74	6.203	
14,900.0	12,370.0	14,646.9	12,283.6	43.3	60.3	-82.19	-2,308.6	2,263.6	635.6	530.9	104.67	6.072	
15,000.0	12,370.0	14,746.0	12,284.7	43.9	61.4	-82.25	-2,407.7	2,261.3	632.4	526.0	106.40	5.943	
15,100.0	12,370.0	14,844.7	12,285.1	44.4	62.5	-82.24	-2,506.3	2,259.0	629.2	521.1	108.16	5.818	
15,200.0	12,370.0	14,941.8	12,285.0	45.0	63.7	-82.20	-2,603.5	2,257.1	626.5	516.5	109.94	5.699	
15,300.0	12,370.0	15,041.1	12,286.5	45.6	64.9	-82.31	-2,702.7	2,255.7	624.1	512.3	111.77	5.584	
15,400.0	12,370.0	15,133.8	12,288.2	46.1	66.0	-82.44	-2,795.4	2,254.4	621.7	508.2	113.55	5.476	
15,430.4	12,370.0	15,156.5	12,288.4	46.3	66.3	-82.46	-2,818.0	2,254.4	621.5	507.5	114.02	5.451	
15,500.0	12,370.0	15,211.8	12,288.5	46.7	67.0	-82.47	-2,873.3	2,255.7	622.5	507.4	115.12	5.408	
15,600.0	12,370.0	15,327.2	12,289.0	47.4	68.5	-82.54	-2,988.7	2,257.8	623.4	506.1	117.30	5.315	
15,700.0	12,370.0	15,429.0	12,293.7	48.0	69.8	-82.96	-3,090.4	2,258.5	622.8	503.5	119.26	5.222	
15,735.7	12,370.0	15,461.8	12,294.6	48.2	70.2	-83.05	-3,123.2	2,258.8	622.7	502.8	119.91	5.193	
15,800.0	12,370.0	15,524.1	12,295.2	48.6	71.0	-83.11	-3,185.4	2,259.6	622.9	501.7	121.16	5.141	
15,900.0	12,370.0	15,625.2	12,296.1	49.3	72.3	-83.20	-3,286.6	2,260.8	623.2	500.0	123.19	5.059	
16,000.0	12,370.0	15,723.2	12,296.5	49.9	73.6	-83.23	-3,384.6	2,261.7	623.3	498.1	125.20	4.978	
16,100.0	12,370.0	15,808.0	12,296.3	50.6	74.8	-83.23	-3,469.4	2,263.5	624.7	497.7	126.99	4.919	
16,200.0	12,370.0	15,903.8	12,296.3	51.2	76.0	-83.27	-3,565.0	2,268.4	629.0	500.0	129.00	4.876	
16,300.0	12,370.0	16,011.7	12,296.1	51.9	77.5	-83.27	-3,672.8	2,271.5	630.9	499.7	131.27	4.806	
16,400.0	12,370.0	16,102.3	12,296.6	52.6	78.8	-83.35	-3,763.4	2,275.2	634.1	500.9	133.21	4.760	
16,500.0	12,370.0	16,202.6	12,296.4	53.3	80.2	-83.37	-3,863.6	2,280.0	638.1	502.8	135.37	4.714	
16,600.0	12,370.0	16,332.6	12,296.2	54.0	82.0	-83.38	-3,993.5	2,283.5	640.1	502.0	138.11	4.635	
16,700.0	12,370.0	16,430.0	12,295.8	54.7	83.3	-83.34	-4,090.9	2,283.5	639.4	499.2	140.25	4.559	
16,800.0	12,370.0	16,538.4	12,295.6	55.4	84.9	-83.30	-4,199.3	2,282.8	638.0	495.4	142.58	4.474	
16,877.4	12,370.0	16,603.9	12,296.2	56.0	85.8	-83.36	-4,264.8	2,282.7	637.2	493.1	144.10	4.422	
16,900.0	12,370.0	16,624.8	12,296.6	56.2	86.1	-83.39	-4,285.7	2,283.0	637.3	492.7	144.57	4.408	
17,000.0	12,370.0	16,735.0	12,298.1	56.9	87.7	-83.51	-4,395.9	2,282.8	636.1	489.2	146.96	4.329	
17,043.9	12,370.0	16,770.4	12,298.4	57.2	88.2	-83.54	-4,431.3	2,282.9	635.8	488.0	147.80	4.302	
17,100.0	12,370.0	16,818.1	12,298.7	57.6	88.9	-83.57	-4,479.0	2,283.7	636.3	487.4	148.90	4.273	
17,200.0	12,370.0	16,918.7	12,298.7	58.4	90.3	-83.58	-4,579.6	2,285.4	637.2	486.0	151.18	4.215	
17,300.0	12,370.0	16,998.0	12,298.3	59.1	91.5	-83.56	-4,658.8	2,288.5	640.3	487.3	152.98	4.185	
17,400.0	12,370.0	17,132.1	12,297.8	59.9	93.4	-83.55	-4,792.8	2,291.7	641.8	485.8	156.00	4.114	
17,500.0	12,370.0	17,237.2	12,298.5	60.7	95.0	-83.59	-4,897.9	2,290.9	640.2	481.8	158.37	4.042	
17,600.0	12,370.0	17,333.8	12,299.0	61.4	96.4	-83.62	-4,994.5	2,290.4	638.8	478.2	160.62	3.977	
17,700.0	12,370.0	17,428.3	12,299.2	62.2	97.8	-83.63	-5,089.1	2,290.4	638.0	475.2	162.84	3.918	
17,723.4	12,370.0	17,450.1	12,299.2	62.4	98.1	-83.63	-5,110.8	2,290.6	638.0	474.6	163.36	3.906	
17,800.0	12,370.0	17,521.2	12,299.1	63.0	99.2	-83.62	-5,181.9	2,291.4	638.3	473.3	165.04	3.868	
17,900.0	12,370.0	17,620.1	12,298.7	63.8	100.6	-83.60	-5,280.8	2,293.3	639.5	472.2	167.36	3.821	
18,000.0	12,370.0	17,731.1	12,299.1	64.6	102.3	-83.64	-5,391.8	2,294.7	639.9	470.0	169.91	3.766	
18,100.0	12,370.0	17,828.2	12,299.4	65.4	103.8	-83.66	-5,488.9	2,294.7	639.1	466.9	172.22	3.711	
18,119.1	12,370.0	17,845.7	12,299.3	65.5	104.0	-83.65	-5,506.4	2,294.8	639.1	466.4	172.64	3.702	
18,200.0	12,370.0	17,915.6	12,299.0	66.2	105.1	-83.62	-5,576.3	2,295.9	639.7	465.4	174.34	3.670	
18,300.0	12,370.0	18,012.3	12,298.9	67.0	106.5	-83.64	-5,672.9	2,298.9	642.0	465.4	176.64	3.635	
18,400.0	12,370.0	18,119.3	12,299.7	67.8	108.2	-83.73	-5,779.8	2,301.8	643.8	464.6	179.19	3.593	
18,500.0	12,370.0	18,227.9	12,299.4	68.6	109.8	-83.71	-5,888.5	2,303.1	644.3	462.6	181.76	3.545	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Chevron - SD EA 29 32 Federal Com P11 13H - SD EA 29 32 Federal Com P11 - Original Hole - Original Hole

Offset Site Error: 0.0 usft

Survey Program: 33-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
18,600.0	12,370.0	18,336.4	12,298.7	69.4	111.5	-83.64	-5,997.0	2,302.8	643.3	459.0	184.30	3.490	
18,682.8	12,370.0	18,409.5	12,299.1	70.1	112.6	-83.66	-6,070.1	2,302.8	642.6	456.5	186.12	3.453	
18,700.0	12,370.0	18,426.3	12,299.3	70.2	112.8	-83.68	-6,086.8	2,303.0	642.7	456.1	186.53	3.445	
18,800.0	12,370.0	18,532.5	12,298.4	71.0	114.5	-83.59	-6,193.0	2,303.0	641.9	452.8	189.06	3.395	
18,838.3	12,370.0	18,565.1	12,297.8	71.4	114.9	-83.54	-6,225.6	2,303.0	641.7	451.8	189.89	3.379	
18,900.0	12,370.0	18,618.8	12,297.0	71.9	115.8	-83.47	-6,279.4	2,303.7	642.2	450.9	191.22	3.358	
19,000.0	12,370.0	18,715.7	12,296.1	72.7	117.3	-83.41	-6,376.2	2,305.9	643.7	450.1	193.58	3.325	
19,100.0	12,370.0	18,815.3	12,295.6	73.5	118.8	-83.38	-6,475.7	2,308.4	645.4	449.4	196.02	3.293	
19,200.0	12,370.0	18,914.1	12,295.3	74.4	120.3	-83.37	-6,574.5	2,310.9	647.3	448.8	198.43	3.262	
19,300.0	12,370.0	19,013.0	12,295.1	75.2	121.9	-83.37	-6,673.4	2,313.9	649.4	448.6	200.86	3.233	
19,400.0	12,370.0	19,127.9	12,294.7	76.0	123.6	-83.36	-6,788.3	2,316.4	650.9	447.3	203.64	3.196	
19,500.0	12,370.0	19,260.4	12,294.6	76.9	125.7	-83.31	-6,920.7	2,313.9	648.3	441.8	206.47	3.140	
19,600.0	12,370.0	19,373.1	12,295.1	77.7	127.4	-83.28	-7,033.3	2,307.8	642.0	433.1	208.93	3.073	
19,700.0	12,370.0	19,478.8	12,296.6	78.6	129.0	-83.33	-7,138.7	2,300.3	634.1	422.7	211.34	3.000	
19,800.0	12,370.0	19,568.6	12,297.2	79.4	130.4	-83.32	-7,228.3	2,294.5	626.8	413.0	213.79	2.932	Normal Operations
19,900.0	12,370.0	19,658.9	12,296.8	80.3	131.8	-83.22	-7,318.5	2,290.0	621.0	404.8	216.21	2.872	Normal Operations
20,000.0	12,370.0	19,752.0	12,296.0	81.1	133.2	-83.11	-7,411.5	2,286.5	616.7	398.0	218.62	2.821	Normal Operations
20,062.0	12,370.0	19,790.0	12,295.8	81.7	133.8	-83.06	-7,449.5	2,285.3	614.7	394.9	219.80	2.797	Normal Operations, CC, ES, SF
20,100.0	12,370.0	19,790.0	12,295.8	82.0	133.8	-83.06	-7,449.5	2,285.3	615.9	396.3	219.60	2.805	Normal Operations
20,103.3	12,370.0	19,790.0	12,295.8	82.0	133.8	-83.06	-7,449.5	2,285.3	616.1	396.6	219.54	2.806	Normal Operations

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL OFFSETS - SD EA 19 FEDERAL P6 7H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 500-r.5 INC-ONLY, 1050-r.5 MWD, 8718-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 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
11,900.0	11,690.5	13,846.0	12,406.7	36.5	95.7	-71.32	428.0	1,037.1	940.1	836.1	103.94	9.044	
12,000.0	11,790.5	13,846.0	12,406.7	36.6	95.7	-71.32	428.0	1,037.1	866.3	757.8	108.55	7.981	
12,100.0	11,890.5	13,846.0	12,406.7	36.6	95.7	-71.32	428.0	1,037.1	798.3	684.7	113.64	7.025	
12,102.0	11,892.5	13,846.0	12,406.7	36.6	95.7	-71.32	428.0	1,037.1	797.0	683.3	113.74	7.007	
12,125.0	11,915.5	13,846.0	12,406.7	36.6	95.7	111.24	428.0	1,037.1	782.5	667.6	114.95	6.808	
12,150.0	11,940.4	13,846.0	12,406.7	36.6	95.7	113.31	428.0	1,037.1	767.6	651.4	116.22	6.605	
12,175.0	11,965.2	13,846.0	12,406.7	36.6	95.7	115.15	428.0	1,037.1	753.7	636.2	117.43	6.418	
12,200.0	11,989.8	13,846.0	12,406.7	36.5	95.7	116.77	428.0	1,037.1	740.8	622.2	118.57	6.248	
12,225.0	12,014.2	13,846.0	12,406.7	36.5	95.7	118.19	428.0	1,037.1	729.0	609.4	119.61	6.095	
12,250.0	12,038.2	13,846.0	12,406.7	36.5	95.7	119.41	428.0	1,037.1	718.5	598.0	120.53	5.961	
12,275.0	12,061.8	13,846.0	12,406.7	36.5	95.7	120.43	428.0	1,037.1	709.4	588.0	121.32	5.847	
12,300.0	12,084.9	13,846.0	12,406.7	36.5	95.7	121.28	428.0	1,037.1	701.6	579.6	121.95	5.753	
12,325.0	12,107.5	13,846.0	12,406.7	36.5	95.7	121.94	428.0	1,037.1	695.3	572.9	122.40	5.680	
12,350.0	12,129.5	13,846.0	12,406.7	36.4	95.7	122.43	428.0	1,037.1	690.5	567.8	122.66	5.629	
12,375.0	12,150.9	13,846.0	12,406.7	36.4	95.7	122.76	428.0	1,037.1	687.3	564.6	122.72	5.600	
12,400.0	12,171.5	13,846.0	12,406.7	36.4	95.7	122.92	428.0	1,037.1	685.7	563.1	122.58	5.594 SF	
12,412.1	12,181.2	13,846.0	12,406.7	36.4	95.7	122.94	428.0	1,037.1	685.5	563.1	122.44	5.599 CC, ES	
12,425.0	12,191.4	13,846.0	12,406.7	36.4	95.7	122.92	428.0	1,037.1	685.7	563.5	122.23	5.610	
12,450.0	12,210.5	13,846.0	12,406.7	36.4	95.7	122.75	428.0	1,037.1	687.4	565.7	121.67	5.650	
12,475.0	12,228.7	13,846.0	12,406.7	36.4	95.7	122.42	428.0	1,037.1	690.6	569.7	120.92	5.712	
12,500.0	12,246.0	13,846.0	12,406.7	36.4	95.7	121.92	428.0	1,037.1	695.5	575.5	119.99	5.796	
12,525.0	12,262.3	13,846.0	12,406.7	36.4	95.7	121.25	428.0	1,037.1	701.8	582.9	118.90	5.903	
12,550.0	12,277.6	13,846.0	12,406.7	36.4	95.7	120.40	428.0	1,037.1	709.6	592.0	117.67	6.031	
12,575.0	12,291.9	13,846.0	12,406.7	36.4	95.7	119.37	428.0	1,037.1	718.9	602.5	116.32	6.180	
12,600.0	12,305.0	13,846.0	12,406.7	36.4	95.7	118.14	428.0	1,037.1	729.4	614.5	114.88	6.349	
12,625.0	12,317.0	13,846.0	12,406.7	36.4	95.7	116.72	428.0	1,037.1	741.2	627.8	113.36	6.538	
12,650.0	12,327.9	13,846.0	12,406.7	36.4	95.7	115.09	428.0	1,037.1	754.1	642.3	111.80	6.745	
12,675.0	12,337.5	13,846.0	12,406.7	36.4	95.7	113.24	428.0	1,037.1	768.1	657.9	110.21	6.969	
12,700.0	12,346.0	13,846.0	12,406.7	36.4	95.7	111.17	428.0	1,037.1	783.0	674.4	108.62	7.209	
12,725.0	12,353.2	13,846.0	12,406.7	36.4	95.7	108.87	428.0	1,037.1	798.8	691.8	107.03	7.464	
12,750.0	12,359.1	13,846.0	12,406.7	36.4	95.7	106.33	428.0	1,037.1	815.4	710.0	105.46	7.732	
12,775.0	12,363.8	13,846.0	12,406.7	36.4	95.7	103.56	428.0	1,037.1	832.7	728.8	103.92	8.013	
12,800.0	12,367.1	13,846.0	12,406.7	36.4	95.7	100.56	428.0	1,037.1	850.6	748.2	102.43	8.304	
12,825.0	12,369.2	13,846.0	12,406.7	36.5	95.7	97.34	428.0	1,037.1	869.0	768.0	100.99	8.605	
12,852.0	12,370.0	13,846.0	12,406.7	36.5	95.7	93.65	428.0	1,037.1	889.3	789.8	99.49	8.938	
12,900.0	12,370.0	13,846.0	12,406.7	36.5	95.7	93.65	428.0	1,037.1	926.4	829.4	96.99	9.551	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 701H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 3.0 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
0.0	0.0	0.0	8.6	0.0	3.0	-90.46	-0.2	-30.0	31.2				
100.0	100.0	91.4	100.0	0.7	3.1	-90.46	-0.2	-30.0	30.0	25.1	4.89	6.133	
200.0	200.0	191.4	200.0	1.4	3.3	-90.46	-0.2	-30.0	30.0	24.5	5.49	5.466	
300.0	300.0	291.4	300.0	1.9	3.5	-90.46	-0.2	-30.0	30.0	24.0	6.04	4.967	
400.0	400.0	391.4	400.0	2.2	3.7	-90.46	-0.2	-30.0	30.0	23.5	6.54	4.586	
500.0	500.0	491.4	500.0	2.5	3.9	-90.46	-0.2	-30.0	30.0	23.0	7.01	4.279	
600.0	600.0	591.4	600.0	2.8	4.1	-90.46	-0.2	-30.0	30.0	22.6	7.45	4.027	
700.0	700.0	691.4	700.0	3.1	4.3	-90.46	-0.2	-30.0	30.0	22.1	7.87	3.813	
800.0	800.0	791.4	800.0	3.3	4.5	-90.46	-0.2	-30.0	30.0	21.7	8.27	3.629	
900.0	900.0	891.4	900.0	3.6	4.7	-90.46	-0.2	-30.0	30.0	21.4	8.65	3.469	
1,000.0	1,000.0	991.4	1,000.0	3.8	4.8	-90.46	-0.2	-30.0	30.0	21.0	9.02	3.327	
1,100.0	1,100.0	1,091.4	1,100.0	4.0	5.0	-90.46	-0.2	-30.0	30.0	20.6	9.37	3.201	
1,200.0	1,200.0	1,191.4	1,200.0	4.2	5.1	-90.46	-0.2	-30.0	30.0	20.3	9.72	3.088	
1,300.0	1,300.0	1,291.4	1,300.0	4.4	5.3	-90.46	-0.2	-30.0	30.0	19.9	10.05	2.985	Normal Operations
1,400.0	1,400.0	1,391.4	1,400.0	4.5	5.4	-90.46	-0.2	-30.0	30.0	19.6	10.38	2.891	Normal Operations
1,500.0	1,500.0	1,491.4	1,500.0	4.7	5.6	-90.46	-0.2	-30.0	30.0	19.3	10.70	2.805	Normal Operations, CC, ES, SF
1,600.0	1,600.0	1,591.4	1,600.0	5.0	5.7	-172.67	-0.2	-30.0	31.7	20.6	11.09	2.861	Normal Operations
1,700.0	1,699.8	1,691.2	1,699.8	5.3	5.9	-173.69	-0.2	-30.0	36.9	25.4	11.49	3.215	
1,800.0	1,799.5	1,790.9	1,799.5	5.5	6.0	-174.88	-0.2	-30.0	45.6	33.7	11.89	3.834	
1,900.0	1,898.7	1,890.1	1,898.7	5.8	6.2	-175.94	-0.2	-30.0	57.7	45.4	12.32	4.688	
2,000.0	1,997.5	1,988.9	1,997.5	6.2	6.3	-176.79	-0.2	-30.0	73.4	60.6	12.76	5.749	
2,100.0	2,095.6	2,089.9	2,098.5	6.5	6.5	-177.37	0.0	-28.6	91.1	77.8	13.29	6.852	
2,200.0	2,193.1	2,191.9	2,200.3	6.8	6.7	-177.69	0.9	-23.7	108.7	94.9	13.84	7.856	
2,282.8	2,273.1	2,276.8	2,285.0	7.1	6.9	-177.83	2.2	-16.9	123.3	109.0	14.28	8.637	
2,300.0	2,289.7	2,294.5	2,302.6	7.2	6.9	-177.85	2.5	-15.1	126.3	111.9	14.36	8.796	
2,400.0	2,385.9	2,398.2	2,405.5	7.5	7.2	-177.88	4.8	-2.8	141.5	126.6	14.93	9.478	
2,500.0	2,482.2	2,502.9	2,508.9	7.8	7.5	-177.80	7.8	13.3	153.1	137.6	15.51	9.869	
2,600.0	2,578.5	2,608.3	2,612.4	8.2	7.7	-177.61	11.6	33.3	161.1	144.9	16.12	9.991	
2,700.0	2,674.8	2,709.8	2,711.4	8.6	8.0	-177.37	15.6	55.1	166.3	149.6	16.71	9.958	
2,800.0	2,771.1	2,809.6	2,808.8	9.0	8.2	-177.15	19.7	76.7	171.5	154.1	17.38	9.868	
2,900.0	2,867.4	2,909.5	2,906.2	9.4	8.5	-176.94	23.7	98.4	176.7	158.6	18.08	9.769	
3,000.0	2,963.7	3,009.4	3,003.6	9.8	8.8	-176.74	27.8	120.0	181.8	163.0	18.81	9.664	
3,100.0	3,060.0	3,109.2	3,101.0	10.2	9.1	-176.55	31.8	141.7	187.0	167.4	19.57	9.556	
3,200.0	3,156.3	3,209.1	3,198.4	10.6	9.4	-176.37	35.8	163.3	192.1	171.8	20.34	9.446	
3,300.0	3,252.6	3,309.0	3,295.8	11.0	9.8	-176.20	39.9	185.0	197.3	176.2	21.13	9.336	
3,400.0	3,348.8	3,408.8	3,393.2	11.5	10.1	-176.04	43.9	206.6	202.5	180.5	21.94	9.227	
3,500.0	3,445.1	3,508.7	3,490.6	11.9	10.5	-175.89	48.0	228.2	207.6	184.9	22.76	9.121	
3,600.0	3,541.4	3,608.6	3,588.0	12.3	10.9	-175.74	52.0	249.9	212.8	189.2	23.60	9.017	
3,700.0	3,637.7	3,708.4	3,685.4	12.8	11.2	-175.60	56.0	271.5	218.0	193.5	24.45	8.916	
3,800.0	3,734.0	3,808.3	3,782.8	13.2	11.6	-175.47	60.1	293.2	223.1	197.8	25.30	8.818	
3,900.0	3,830.3	3,908.2	3,880.2	13.7	12.0	-175.34	64.1	314.8	228.3	202.1	26.17	8.723	
4,000.0	3,926.6	4,008.0	3,977.7	14.2	12.4	-175.22	68.2	336.4	233.5	206.4	27.05	8.632	
4,100.0	4,022.9	4,107.9	4,075.1	14.6	12.8	-175.11	72.2	358.1	238.6	210.7	27.93	8.545	
4,200.0	4,119.2	4,207.8	4,172.5	15.1	13.2	-175.00	76.2	379.7	243.8	215.0	28.82	8.461	
4,300.0	4,215.4	4,307.6	4,269.9	15.6	13.7	-174.89	80.3	401.4	249.0	219.3	29.71	8.380	
4,400.0	4,311.7	4,407.5	4,367.3	16.0	14.1	-174.79	84.3	423.0	254.2	223.6	30.61	8.302	
4,500.0	4,408.0	4,507.3	4,464.7	16.5	14.5	-174.69	88.4	444.6	259.3	227.8	31.52	8.228	
4,600.0	4,504.3	4,607.2	4,562.1	17.0	14.9	-174.60	92.4	466.3	264.5	232.1	32.43	8.157	
4,700.0	4,600.6	4,707.1	4,659.5	17.4	15.4	-174.51	96.4	487.9	269.7	236.4	33.35	8.088	
4,800.0	4,696.9	4,806.9	4,756.9	17.9	15.8	-174.42	100.5	509.6	274.9	240.6	34.26	8.022	
4,900.0	4,793.2	4,906.8	4,854.3	18.4	16.2	-174.34	104.5	531.2	280.1	244.9	35.19	7.959	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 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
5,000.0	4,889.5	5,006.7	4,951.7	18.9	16.7	-174.26	108.6	552.9	285.2	249.1	36.11	7.899	
5,100.0	4,985.8	5,106.5	5,049.1	19.4	17.1	-174.18	112.6	574.5	290.4	253.4	37.04	7.840	
5,200.0	5,082.1	5,206.4	5,146.6	19.8	17.5	-174.11	116.6	596.1	295.6	257.6	37.97	7.785	
5,300.0	5,178.3	5,306.3	5,244.0	20.3	18.0	-174.04	120.7	617.8	300.8	261.9	38.91	7.731	
5,400.0	5,274.6	5,406.1	5,341.4	20.8	18.4	-173.97	124.7	639.4	306.0	266.1	39.84	7.679	
5,500.0	5,370.9	5,506.0	5,438.8	21.3	18.9	-173.90	128.8	661.1	311.1	270.4	40.78	7.630	
5,600.0	5,467.2	5,605.9	5,536.2	21.8	19.3	-173.83	132.8	682.7	316.3	274.6	41.72	7.582	
5,700.0	5,563.5	5,705.7	5,633.6	22.3	19.8	-173.77	136.8	704.3	321.5	278.8	42.66	7.536	
5,800.0	5,659.8	5,805.6	5,731.0	22.8	20.2	-173.71	140.9	726.0	326.7	283.1	43.61	7.491	
5,900.0	5,756.1	5,905.5	5,828.4	23.2	20.7	-173.65	144.9	747.6	331.9	287.3	44.56	7.449	
6,000.0	5,852.4	6,005.3	5,925.8	23.7	21.2	-173.59	149.0	769.3	337.1	291.6	45.50	7.407	
6,100.0	5,948.7	6,105.2	6,023.2	24.2	21.6	-173.54	153.0	790.9	342.2	295.8	46.45	7.368	
6,200.0	6,044.9	6,205.1	6,120.6	24.7	22.1	-173.48	157.0	812.6	347.4	300.0	47.40	7.329	
6,300.0	6,141.2	6,304.9	6,218.0	25.2	22.5	-173.43	161.1	834.2	352.6	304.3	48.35	7.292	
6,400.0	6,237.5	6,404.8	6,315.5	25.7	23.0	-173.38	165.1	855.8	357.8	308.5	49.31	7.256	
6,500.0	6,333.8	6,504.6	6,412.9	26.2	23.4	-173.33	169.2	877.5	363.0	312.7	50.26	7.222	
6,600.0	6,430.1	6,604.5	6,510.3	26.7	23.9	-173.28	173.2	899.1	368.2	316.9	51.22	7.188	
6,700.0	6,526.4	6,704.4	6,607.7	27.2	24.4	-173.23	177.2	920.8	373.4	321.2	52.17	7.156	
6,800.0	6,622.7	6,804.2	6,705.1	27.7	24.8	-173.19	181.3	942.4	378.5	325.4	53.13	7.125	
6,900.0	6,719.0	6,904.1	6,802.5	28.2	25.3	-173.15	185.3	964.0	383.7	329.6	54.09	7.094	
7,000.0	6,815.3	7,004.0	6,899.9	28.6	25.8	-173.10	189.4	985.7	388.9	333.9	55.05	7.065	
7,100.0	6,911.6	7,103.8	6,997.3	29.1	26.2	-173.06	193.4	1,007.3	394.1	338.1	56.01	7.037	
7,143.8	6,953.7	7,147.6	7,040.0	29.4	26.4	-173.04	195.2	1,016.8	396.4	339.9	56.42	7.025	
7,200.0	7,007.9	7,203.7	7,094.7	29.6	26.7	-173.02	197.4	1,029.0	399.0	342.1	56.95	7.006	
7,300.0	7,104.7	7,303.7	7,192.2	30.1	27.2	-172.95	201.5	1,050.6	402.4	344.5	57.90	6.949	
7,400.0	7,201.9	7,400.0	7,286.2	30.6	27.6	-172.86	205.4	1,071.4	404.1	345.3	58.80	6.873	
7,500.0	7,299.5	7,494.2	7,378.4	31.1	28.0	-172.77	208.9	1,090.4	405.6	345.9	59.68	6.796	
7,600.0	7,397.4	7,587.6	7,470.1	31.5	28.5	-172.69	212.1	1,107.8	406.9	346.4	60.52	6.723	
7,700.0	7,495.7	7,681.1	7,562.2	32.0	28.9	-172.62	215.1	1,123.7	408.0	346.7	61.32	6.654	
7,800.0	7,594.3	7,774.5	7,654.4	32.4	29.3	-172.55	217.8	1,138.1	409.1	347.0	62.10	6.588	
7,900.0	7,693.2	7,867.9	7,746.9	32.9	29.7	-172.49	220.2	1,151.0	410.0	347.2	62.84	6.525	
8,000.0	7,792.3	7,961.3	7,839.6	33.3	30.1	-172.44	222.4	1,162.5	410.8	347.3	63.54	6.466	
8,100.0	7,891.7	8,054.7	7,932.4	33.7	30.4	-172.39	224.2	1,172.5	411.5	347.3	64.20	6.410	
8,200.0	7,991.2	8,148.1	8,025.4	34.1	30.8	-172.35	225.8	1,181.0	412.1	347.3	64.82	6.357	
8,300.0	8,090.9	8,241.5	8,118.5	34.5	31.1	-172.32	227.1	1,188.0	412.5	347.1	65.39	6.309	
8,400.0	8,190.7	8,334.8	8,211.7	34.9	31.5	-172.29	228.1	1,193.5	412.8	346.9	65.91	6.264	
8,500.0	8,290.6	8,428.2	8,305.0	35.2	31.8	-172.27	228.9	1,197.5	413.0	346.7	66.37	6.223	
8,600.0	8,390.5	8,521.6	8,398.3	35.5	32.0	-172.26	229.4	1,200.0	413.1	346.3	66.74	6.189	
8,700.0	8,490.5	8,614.9	8,491.7	35.6	32.3	-172.25	229.6	1,201.0	413.0	346.1	66.90	6.174	
8,709.5	8,500.0	8,623.8	8,500.6	35.6	32.3	-90.46	229.6	1,201.0	413.0	346.1	66.91	6.173	
8,742.8	8,533.3	8,656.6	8,533.3	35.7	32.3	-90.46	229.6	1,201.0	413.0	346.1	66.91	6.173	
8,800.0	8,590.5	8,713.8	8,590.5	35.7	32.3	-90.46	229.6	1,201.0	413.0	346.1	66.93	6.170	
8,900.0	8,690.5	8,813.8	8,690.5	35.7	32.3	-90.46	229.6	1,201.0	413.0	346.0	66.99	6.165	
9,000.0	8,790.5	8,913.8	8,790.5	35.7	32.4	-90.46	229.6	1,201.0	413.0	346.0	67.04	6.160	
9,100.0	8,890.5	9,013.8	8,890.5	35.7	32.4	-90.46	229.6	1,201.0	413.0	345.9	67.10	6.155	
9,200.0	8,990.5	9,113.8	8,990.5	35.8	32.4	-90.46	229.6	1,201.0	413.0	345.8	67.15	6.150	
9,300.0	9,090.5	9,213.8	9,090.5	35.8	32.4	-90.46	229.6	1,201.0	413.0	345.8	67.21	6.145	
9,400.0	9,190.5	9,313.8	9,190.5	35.8	32.5	-90.46	229.6	1,201.0	413.0	345.7	67.26	6.140	
9,500.0	9,290.5	9,413.8	9,290.5	35.8	32.5	-90.46	229.6	1,201.0	413.0	345.7	67.32	6.135	
9,600.0	9,390.5	9,513.8	9,390.5	35.9	32.5	-90.46	229.6	1,201.0	413.0	345.6	67.38	6.130	
9,700.0	9,490.5	9,613.8	9,490.5	35.9	32.6	-90.46	229.6	1,201.0	413.0	345.6	67.43	6.125	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 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
9,800.0	9,590.5	9,713.8	9,590.5	35.9	32.6	-90.46	229.6	1,201.0	413.0	345.5	67.49	6.119	
9,900.0	9,690.5	9,813.8	9,690.5	36.0	32.6	-90.46	229.6	1,201.0	413.0	345.5	67.55	6.114	
10,000.0	9,790.5	9,913.8	9,790.5	36.0	32.7	-90.46	229.6	1,201.0	413.0	345.4	67.61	6.109	
10,100.0	9,890.5	10,013.8	9,890.5	36.0	32.7	-90.46	229.6	1,201.0	413.0	345.3	67.66	6.104	
10,200.0	9,990.5	10,113.8	9,990.5	36.0	32.7	-90.46	229.6	1,201.0	413.0	345.3	67.72	6.098	
10,300.0	10,090.5	10,213.8	10,090.5	36.1	32.8	-90.46	229.6	1,201.0	413.0	345.2	67.78	6.093	
10,400.0	10,190.5	10,313.8	10,190.5	36.1	32.8	-90.46	229.6	1,201.0	413.0	345.2	67.84	6.088	
10,500.0	10,290.5	10,413.8	10,290.5	36.1	32.8	-90.46	229.6	1,201.0	413.0	345.1	67.90	6.082	
10,600.0	10,390.5	10,513.8	10,390.5	36.2	32.9	-90.46	229.6	1,201.0	413.0	345.0	67.96	6.077	
10,700.0	10,490.5	10,613.8	10,490.5	36.2	32.9	-90.46	229.6	1,201.0	413.0	345.0	68.02	6.072	
10,800.0	10,590.5	10,713.8	10,590.5	36.2	32.9	-90.46	229.6	1,201.0	413.0	344.9	68.08	6.066	
10,900.0	10,690.5	10,813.8	10,690.5	36.2	32.9	-90.46	229.6	1,201.0	413.0	344.9	68.14	6.061	
11,000.0	10,790.5	10,913.8	10,790.5	36.3	33.0	-90.46	229.6	1,201.0	413.0	344.8	68.20	6.056	
11,100.0	10,890.5	11,013.8	10,890.5	36.3	33.0	-90.46	229.6	1,201.0	413.0	344.7	68.26	6.050	
11,200.0	10,990.5	11,113.8	10,990.5	36.3	33.0	-90.46	229.6	1,201.0	413.0	344.7	68.33	6.045	
11,300.0	11,090.5	11,213.8	11,090.5	36.4	33.1	-90.46	229.6	1,201.0	413.0	344.6	68.39	6.039	
11,400.0	11,190.5	11,313.8	11,190.5	36.4	33.1	-90.46	229.6	1,201.0	413.0	344.6	68.45	6.034	
11,500.0	11,290.5	11,413.8	11,290.5	36.4	33.1	-90.46	229.6	1,201.0	413.0	344.5	68.51	6.028	
11,600.0	11,390.5	11,513.8	11,390.5	36.4	33.2	-90.46	229.6	1,201.0	413.0	344.4	68.58	6.023	
11,700.0	11,490.5	11,613.8	11,490.5	36.5	33.2	-90.46	229.6	1,201.0	413.0	344.4	68.64	6.017	
11,800.0	11,590.5	11,713.8	11,590.5	36.5	33.3	-90.46	229.6	1,201.0	413.0	344.3	68.70	6.011	
11,814.3	11,604.9	11,728.1	11,604.9	36.5	33.3	-90.46	229.6	1,201.0	413.0	344.3	68.71	6.011	
11,900.0	11,690.5	11,813.8	11,690.5	36.5	33.3	-90.48	229.5	1,201.0	413.0	344.2	68.77	6.006	
11,904.4	11,695.0	11,818.2	11,695.0	36.5	33.3	-90.49	229.4	1,201.0	413.0	344.2	68.77	6.005	
12,000.0	11,790.5	11,911.9	11,787.7	36.6	33.2	-92.14	217.5	1,201.1	413.2	344.3	68.91	5.996	
12,100.0	11,890.5	12,001.7	11,872.8	36.6	33.1	-96.02	189.4	1,201.4	415.3	346.5	68.79	6.038	
12,102.0	11,892.5	12,003.3	11,874.4	36.6	33.1	-96.11	188.7	1,201.4	415.4	346.6	68.78	6.040	
12,125.0	11,915.5	12,022.4	11,891.7	36.6	33.1	83.16	180.6	1,201.4	416.5	347.9	68.64	6.068	
12,150.0	11,940.4	12,042.9	11,909.9	36.6	33.1	81.90	171.2	1,201.5	417.9	349.5	68.43	6.107	
12,175.0	11,965.2	12,063.1	11,927.4	36.6	33.1	80.66	161.2	1,201.6	419.5	351.3	68.18	6.152	
12,200.0	11,989.8	12,083.0	11,944.2	36.5	33.1	79.45	150.5	1,201.7	421.2	353.3	67.89	6.204	
12,225.0	12,014.2	12,102.7	11,960.4	36.5	33.1	78.27	139.3	1,201.8	423.1	355.5	67.57	6.262	
12,250.0	12,038.2	12,122.2	11,976.0	36.5	33.0	77.12	127.6	1,201.8	425.1	357.9	67.22	6.324	
12,275.0	12,061.8	12,141.4	11,990.9	36.5	33.0	76.01	115.5	1,201.9	427.2	360.4	66.84	6.391	
12,300.0	12,084.9	12,160.5	12,005.1	36.5	33.0	74.93	102.8	1,202.0	429.4	363.0	66.45	6.462	
12,325.0	12,107.5	12,179.4	12,018.7	36.5	33.0	73.90	89.7	1,202.1	431.7	365.6	66.05	6.536	
12,350.0	12,129.5	12,200.0	12,033.0	36.4	33.0	72.83	74.8	1,202.3	434.0	368.3	65.67	6.608	
12,375.0	12,150.9	12,216.6	12,044.0	36.4	33.0	71.95	62.3	1,202.4	436.3	371.0	65.22	6.689	
12,400.0	12,171.5	12,235.1	12,055.7	36.4	33.0	71.04	48.1	1,202.5	438.6	373.8	64.81	6.768	
12,425.0	12,191.4	12,253.4	12,066.8	36.4	33.0	70.17	33.5	1,202.6	440.9	376.5	64.40	6.846	
12,450.0	12,210.5	12,271.6	12,077.2	36.4	33.0	69.35	18.6	1,202.7	443.1	379.1	63.99	6.925	
12,475.0	12,228.7	12,289.6	12,087.0	36.4	33.0	68.58	3.5	1,202.8	445.3	381.7	63.60	7.002	
12,500.0	12,246.0	12,307.6	12,096.2	36.4	33.0	67.85	-12.0	1,203.0	447.5	384.3	63.22	7.079	
12,525.0	12,262.3	12,325.0	12,104.5	36.4	33.0	67.19	-27.3	1,203.1	449.6	386.7	62.84	7.153	
12,550.0	12,277.6	12,343.3	12,112.7	36.4	33.0	66.55	-43.6	1,203.2	451.5	389.0	62.50	7.224	
12,575.0	12,291.9	12,361.0	12,120.0	36.4	33.0	65.97	-59.8	1,203.3	453.4	391.2	62.16	7.293	
12,600.0	12,305.0	12,378.7	12,126.6	36.4	33.0	65.44	-76.2	1,203.5	455.1	393.3	61.84	7.359	
12,625.0	12,317.0	12,396.3	12,132.6	36.4	33.0	64.96	-92.7	1,203.6	456.7	395.2	61.54	7.421	
12,650.0	12,327.9	12,413.8	12,138.0	36.4	33.0	64.53	-109.4	1,203.7	458.2	396.9	61.26	7.479	
12,675.0	12,337.5	12,431.3	12,142.8	36.4	33.0	64.15	-126.2	1,203.9	459.5	398.5	61.00	7.533	
12,700.0	12,346.0	12,450.0	12,147.2	36.4	33.0	63.81	-144.4	1,204.0	460.6	399.9	60.76	7.581	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 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
12,725.0	12,353.2	12,466.2	12,150.4	36.4	33.0	63.54	-160.2	1,204.1	461.6	401.1	60.53	7.627	
12,750.0	12,359.1	12,483.6	12,153.3	36.4	33.0	63.31	-177.4	1,204.3	462.5	402.1	60.32	7.667	
12,775.0	12,363.8	12,500.0	12,155.5	36.4	33.0	63.14	-193.7	1,204.4	463.1	403.0	60.13	7.702	
12,800.0	12,367.1	12,518.3	12,157.2	36.4	33.1	63.00	-211.8	1,204.5	463.6	403.6	59.97	7.730	
12,825.0	12,369.2	12,535.6	12,158.2	36.5	33.1	62.92	-229.2	1,204.7	463.9	404.0	59.82	7.754	
12,852.0	12,370.0	12,554.3	12,158.6	36.5	33.1	62.89	-247.9	1,204.8	464.0	404.3	59.68	7.774	
12,868.0	12,370.0	12,570.3	12,158.6	36.5	33.1	62.89	-263.9	1,205.0	464.0	404.3	59.63	7.781	
12,900.0	12,370.0	12,602.3	12,158.6	36.5	33.2	62.89	-295.8	1,205.2	464.0	404.4	59.52	7.795	
13,000.0	12,370.0	12,702.3	12,158.6	36.7	33.3	62.89	-395.8	1,206.0	464.0	404.7	59.24	7.832	
13,100.0	12,370.0	12,802.3	12,158.6	36.8	33.5	62.89	-495.8	1,206.8	464.0	405.0	59.01	7.862	
13,200.0	12,370.0	12,902.3	12,158.6	37.0	33.7	62.89	-595.8	1,207.6	464.0	405.1	58.84	7.885	
13,300.0	12,370.0	13,002.3	12,158.6	37.2	33.9	62.89	-695.8	1,208.4	464.0	405.2	58.73	7.900	
13,400.0	12,370.0	13,102.3	12,158.6	37.4	34.1	62.89	-795.8	1,209.2	464.0	405.3	58.67	7.907	
13,500.0	12,370.0	13,202.3	12,158.6	37.7	34.4	62.89	-895.8	1,210.0	464.0	405.3	58.68	7.907	
13,600.0	12,370.0	13,302.3	12,158.6	38.0	34.7	62.89	-995.8	1,210.8	464.0	405.2	58.74	7.899	
13,700.0	12,370.0	13,402.3	12,158.6	38.3	35.0	62.89	-1,095.8	1,211.6	464.0	405.1	58.86	7.883	
13,800.0	12,370.0	13,502.3	12,158.6	38.6	35.4	62.89	-1,195.8	1,212.4	464.0	404.9	59.03	7.860	
13,900.0	12,370.0	13,602.3	12,158.6	38.9	35.7	62.89	-1,295.8	1,213.2	464.0	404.7	59.26	7.829	
14,000.0	12,370.0	13,702.3	12,158.6	39.3	36.1	62.89	-1,395.8	1,214.0	464.0	404.4	59.55	7.791	
14,100.0	12,370.0	13,802.3	12,158.6	39.7	36.5	62.89	-1,495.8	1,214.7	464.0	404.1	59.89	7.747	
14,200.0	12,370.0	13,902.3	12,158.6	40.1	36.9	62.89	-1,595.8	1,215.5	464.0	403.7	60.29	7.696	
14,300.0	12,370.0	14,002.3	12,158.6	40.5	37.4	62.89	-1,695.8	1,216.3	464.0	403.2	60.74	7.639	
14,400.0	12,370.0	14,102.3	12,158.6	40.9	37.9	62.89	-1,795.8	1,217.1	464.0	402.7	61.24	7.576	
14,500.0	12,370.0	14,202.3	12,158.6	41.4	38.3	62.89	-1,895.8	1,217.9	464.0	402.2	61.79	7.508	
14,600.0	12,370.0	14,302.3	12,158.6	41.8	38.8	62.89	-1,995.8	1,218.7	464.0	401.6	62.40	7.436	
14,700.0	12,370.0	14,402.3	12,158.6	42.3	39.4	62.89	-2,095.8	1,219.5	464.0	400.9	63.05	7.359	
14,800.0	12,370.0	14,502.3	12,158.6	42.8	39.9	62.89	-2,195.8	1,220.3	464.0	400.2	63.74	7.279	
14,900.0	12,370.0	14,602.3	12,158.6	43.3	40.4	62.89	-2,295.8	1,221.1	464.0	399.5	64.48	7.195	
15,000.0	12,370.0	14,702.3	12,158.6	43.9	41.0	62.89	-2,395.8	1,221.9	464.0	398.7	65.27	7.109	
15,100.0	12,370.0	14,802.3	12,158.6	44.4	41.6	62.89	-2,495.8	1,222.7	464.0	397.9	66.09	7.020	
15,200.0	12,370.0	14,902.3	12,158.6	45.0	42.2	62.89	-2,595.8	1,223.5	464.0	397.0	66.96	6.929	
15,300.0	12,370.0	15,002.3	12,158.6	45.6	42.8	62.89	-2,695.8	1,224.3	464.0	396.1	67.87	6.836	
15,400.0	12,370.0	15,102.3	12,158.6	46.1	43.4	62.89	-2,795.8	1,225.1	464.0	395.2	68.81	6.743	
15,500.0	12,370.0	15,202.3	12,158.6	46.7	44.0	62.89	-2,895.8	1,225.9	464.0	394.2	69.79	6.648	
15,600.0	12,370.0	15,302.3	12,158.6	47.4	44.7	62.89	-2,995.8	1,226.7	464.0	393.2	70.80	6.553	
15,700.0	12,370.0	15,402.3	12,158.6	48.0	45.3	62.89	-3,095.8	1,227.5	464.0	392.1	71.84	6.458	
15,800.0	12,370.0	15,502.3	12,158.6	48.6	46.0	62.89	-3,195.8	1,228.3	464.0	391.0	72.92	6.363	
15,900.0	12,370.0	15,602.3	12,158.6	49.3	46.7	62.89	-3,295.8	1,229.0	464.0	389.9	74.03	6.268	
16,000.0	12,370.0	15,702.3	12,158.6	49.9	47.4	62.89	-3,395.7	1,229.8	464.0	388.8	75.16	6.173	
16,100.0	12,370.0	15,802.3	12,158.6	50.6	48.0	62.89	-3,495.7	1,230.6	464.0	387.6	76.32	6.079	
16,200.0	12,370.0	15,902.3	12,158.6	51.2	48.7	62.89	-3,595.7	1,231.4	464.0	386.5	77.51	5.986	
16,300.0	12,370.0	16,002.3	12,158.6	51.9	49.5	62.89	-3,695.7	1,232.2	464.0	385.2	78.72	5.894	
16,400.0	12,370.0	16,102.3	12,158.6	52.6	50.2	62.89	-3,795.7	1,233.0	464.0	384.0	79.96	5.802	
16,500.0	12,370.0	16,202.3	12,158.6	53.3	50.9	62.89	-3,895.7	1,233.8	464.0	382.7	81.22	5.712	
16,600.0	12,370.0	16,302.3	12,158.6	54.0	51.6	62.89	-3,995.7	1,234.6	464.0	381.5	82.50	5.624	
16,700.0	12,370.0	16,402.3	12,158.6	54.7	52.4	62.89	-4,095.7	1,235.4	464.0	380.2	83.80	5.536	
16,800.0	12,370.0	16,502.3	12,158.6	55.4	53.1	62.89	-4,195.7	1,236.2	464.0	378.8	85.12	5.450	
16,900.0	12,370.0	16,602.3	12,158.6	56.2	53.9	62.89	-4,295.7	1,237.0	464.0	377.5	86.46	5.366	
17,000.0	12,370.0	16,702.3	12,158.6	56.9	54.6	62.89	-4,395.7	1,237.8	464.0	376.1	87.82	5.283	
17,100.0	12,370.0	16,802.3	12,158.6	57.6	55.4	62.89	-4,495.7	1,238.6	464.0	374.8	89.20	5.202	
17,200.0	12,370.0	16,902.3	12,158.6	58.4	56.2	62.89	-4,595.7	1,239.4	464.0	373.4	90.59	5.122	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 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
17,300.0	12,370.0	17,002.3	12,158.6	59.1	57.0	62.89	-4,695.7	1,240.2	464.0	372.0	91.99	5.043	
17,400.0	12,370.0	17,102.3	12,158.6	59.9	57.8	62.89	-4,795.7	1,241.0	464.0	370.5	93.41	4.967	
17,500.0	12,370.0	17,202.3	12,158.6	60.7	58.5	62.89	-4,895.7	1,241.8	464.0	369.1	94.85	4.892	
17,600.0	12,370.0	17,302.3	12,158.6	61.4	59.3	62.89	-4,995.7	1,242.6	464.0	367.7	96.30	4.818	
17,700.0	12,370.0	17,402.3	12,158.6	62.2	60.1	62.89	-5,095.7	1,243.4	464.0	366.2	97.76	4.746	
17,800.0	12,370.0	17,502.3	12,158.6	63.0	60.9	62.89	-5,195.7	1,244.1	464.0	364.7	99.24	4.675	
17,900.0	12,370.0	17,602.3	12,158.6	63.8	61.8	62.89	-5,295.7	1,244.9	464.0	363.2	100.72	4.606	
18,000.0	12,370.0	17,702.3	12,158.6	64.6	62.6	62.89	-5,395.7	1,245.7	464.0	361.7	102.22	4.539	
18,100.0	12,370.0	17,802.3	12,158.6	65.4	63.4	62.89	-5,495.7	1,246.5	464.0	360.2	103.73	4.473	
18,200.0	12,370.0	17,902.3	12,158.6	66.2	64.2	62.89	-5,595.7	1,247.3	464.0	358.7	105.25	4.408	
18,300.0	12,370.0	18,002.3	12,158.6	67.0	65.0	62.89	-5,695.7	1,248.1	464.0	357.2	106.77	4.345	
18,400.0	12,370.0	18,102.3	12,158.6	67.8	65.9	62.89	-5,795.7	1,248.9	464.0	355.6	108.31	4.284	
18,500.0	12,370.0	18,202.3	12,158.6	68.6	66.7	62.89	-5,895.7	1,249.7	464.0	354.1	109.86	4.223	
18,600.0	12,370.0	18,302.3	12,158.6	69.4	67.5	62.89	-5,995.7	1,250.5	464.0	352.5	111.42	4.164	
18,700.0	12,370.0	18,402.3	12,158.6	70.2	68.4	62.89	-6,095.7	1,251.3	464.0	351.0	112.98	4.107	
18,800.0	12,370.0	18,502.3	12,158.6	71.0	69.2	62.89	-6,195.7	1,252.1	464.0	349.4	114.55	4.050	
18,900.0	12,370.0	18,602.3	12,158.6	71.9	70.1	62.89	-6,295.7	1,252.9	464.0	347.8	116.13	3.995	
19,000.0	12,370.0	18,702.3	12,158.6	72.7	70.9	62.89	-6,395.7	1,253.7	464.0	346.2	117.72	3.941	
19,100.0	12,370.0	18,802.3	12,158.6	73.5	71.8	62.89	-6,495.7	1,254.5	464.0	344.6	119.31	3.889	
19,200.0	12,370.0	18,902.3	12,158.6	74.4	72.6	62.89	-6,595.6	1,255.3	464.0	343.0	120.91	3.837	
19,300.0	12,370.0	19,002.3	12,158.6	75.2	73.5	62.89	-6,695.6	1,256.1	464.0	341.4	122.52	3.787	
19,400.0	12,370.0	19,102.3	12,158.6	76.0	74.3	62.89	-6,795.6	1,256.9	464.0	339.8	124.13	3.738	
19,500.0	12,370.0	19,202.3	12,158.6	76.9	75.2	62.89	-6,895.6	1,257.7	464.0	338.2	125.75	3.689	
19,600.0	12,370.0	19,302.3	12,158.6	77.7	76.1	62.89	-6,995.6	1,258.4	464.0	336.6	127.38	3.642	
19,700.0	12,370.0	19,402.3	12,158.6	78.6	76.9	62.89	-7,095.6	1,259.2	464.0	335.0	129.01	3.596	
19,800.0	12,370.0	19,502.3	12,158.6	79.4	77.8	62.89	-7,195.6	1,260.0	464.0	333.3	130.65	3.551	
19,900.0	12,370.0	19,602.3	12,158.6	80.3	78.7	62.89	-7,295.6	1,260.8	464.0	331.7	132.29	3.507	
20,000.0	12,370.0	19,702.3	12,158.6	81.1	79.6	62.89	-7,395.6	1,261.6	464.0	330.0	133.94	3.464	
20,100.0	12,370.0	19,802.3	12,158.6	82.0	80.4	62.89	-7,495.6	1,262.4	464.0	328.4	135.59	3.422	
20,102.5	12,370.0	19,804.8	12,158.6	82.0	80.4	62.89	-7,498.1	1,262.4	464.0	328.3	135.63	3.421	
20,103.3	12,370.0	19,805.1	12,158.6	82.0	80.5	62.89	-7,498.5	1,262.4	464.0	328.3	135.63	3.421	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
0.0	0.0	0.0	30.0	0.0	0.0	-90.49	-0.8	-90.0	94.9				
100.0	100.0	70.0	100.0	0.7	0.8	-90.49	-0.8	-90.0	90.0	88.0	2.01	44.822	
200.0	200.0	170.0	200.0	1.4	1.6	-90.49	-0.8	-90.0	90.0	86.6	3.41	26.421	
300.0	300.0	270.0	300.0	1.9	2.0	-90.49	-0.8	-90.0	90.0	85.7	4.27	21.059	
400.0	400.0	370.0	400.0	2.2	2.3	-90.49	-0.8	-90.0	90.0	85.0	4.98	18.072	
500.0	500.0	470.0	500.0	2.5	2.6	-90.49	-0.8	-90.0	90.0	84.4	5.59	16.089	
600.0	600.0	570.0	600.0	2.8	2.9	-90.49	-0.8	-90.0	90.0	83.8	6.14	14.644	
700.0	700.0	670.0	700.0	3.1	3.2	-90.49	-0.8	-90.0	90.0	83.3	6.65	13.529	
800.0	800.0	770.0	800.0	3.3	3.4	-90.49	-0.8	-90.0	90.0	82.9	7.12	12.633	
900.0	900.0	870.0	900.0	3.6	3.6	-90.49	-0.8	-90.0	90.0	82.4	7.57	11.891	
1,000.0	1,000.0	970.0	1,000.0	3.8	3.8	-90.49	-0.8	-90.0	90.0	82.0	7.99	11.264	
1,100.0	1,100.0	1,070.0	1,100.0	4.0	4.0	-90.49	-0.8	-90.0	90.0	81.6	8.39	10.724	
1,200.0	1,200.0	1,170.0	1,200.0	4.2	4.2	-90.49	-0.8	-90.0	90.0	81.2	8.78	10.253	
1,300.0	1,300.0	1,270.0	1,300.0	4.4	4.4	-90.49	-0.8	-90.0	90.0	80.8	9.15	9.836	
1,400.0	1,400.0	1,370.0	1,400.0	4.5	4.6	-90.49	-0.8	-90.0	90.0	80.5	9.51	9.464	
1,500.0	1,500.0	1,470.0	1,500.0	4.7	4.8	-90.49	-0.8	-90.0	90.0	80.1	9.86	9.130 CC, ES	
1,600.0	1,600.0	1,572.1	1,602.0	5.0	5.0	-172.18	-0.4	-89.2	90.9	80.6	10.34	8.791	
1,700.0	1,699.8	1,675.0	1,704.9	5.3	5.3	-171.46	1.6	-85.2	92.2	81.4	10.84	8.509	
1,800.0	1,799.5	1,778.0	1,807.5	5.5	5.6	-170.09	5.1	-77.8	93.8	82.4	11.34	8.267	
1,900.0	1,898.7	1,880.7	1,909.6	5.8	5.8	-168.13	10.2	-67.2	95.6	83.9	11.79	8.112 SF	
2,000.0	1,997.5	1,980.6	2,008.6	6.2	6.0	-166.30	15.8	-55.5	99.7	87.4	12.28	8.117	
2,100.0	2,095.6	2,080.2	2,107.4	6.5	6.3	-165.08	21.4	-43.8	107.2	94.3	12.82	8.360	
2,200.0	2,193.1	2,179.6	2,206.0	6.8	6.5	-164.47	27.0	-32.1	118.0	104.6	13.39	8.813	
2,282.8	2,273.1	2,261.7	2,287.3	7.1	6.8	-164.34	31.7	-22.5	129.6	115.7	13.85	9.352	
2,300.0	2,289.7	2,278.6	2,304.1	7.2	6.8	-164.36	32.6	-20.5	132.2	118.3	13.94	9.484	
2,400.0	2,385.9	2,377.5	2,402.1	7.5	7.1	-164.45	38.2	-8.9	147.5	133.0	14.54	10.143	
2,500.0	2,482.2	2,476.3	2,500.1	7.8	7.4	-164.52	43.8	2.7	162.8	147.7	15.15	10.747	
2,600.0	2,578.5	2,575.1	2,598.1	8.2	7.7	-164.58	49.3	14.3	178.1	162.3	15.78	11.287	
2,700.0	2,674.8	2,673.9	2,696.0	8.6	8.1	-164.63	54.9	25.8	193.4	177.0	16.43	11.770	
2,800.0	2,771.1	2,772.7	2,794.0	9.0	8.4	-164.67	60.5	37.4	208.7	191.6	17.11	12.202	
2,900.0	2,867.4	2,871.6	2,892.0	9.4	8.8	-164.71	66.1	49.0	224.0	206.2	17.80	12.589	
3,000.0	2,963.7	2,970.4	2,990.0	9.8	9.1	-164.74	71.6	60.6	239.3	220.8	18.50	12.937	
3,100.0	3,060.0	3,069.2	3,088.0	10.2	9.5	-164.77	77.2	72.2	254.6	235.4	19.22	13.250	
3,200.0	3,156.3	3,168.0	3,186.0	10.6	9.8	-164.80	82.8	83.8	269.9	250.0	19.95	13.532	
3,300.0	3,252.6	3,266.8	3,283.9	11.0	10.2	-164.82	88.3	95.4	285.2	264.6	20.69	13.787	
3,400.0	3,348.8	3,365.7	3,381.9	11.5	10.6	-164.84	93.9	107.0	300.6	279.1	21.44	14.018	
3,500.0	3,445.1	3,464.5	3,479.9	11.9	10.9	-164.86	99.5	118.6	315.9	293.7	22.20	14.229	
3,600.0	3,541.4	3,563.3	3,577.9	12.3	11.3	-164.87	105.1	130.2	331.2	308.2	22.97	14.420	
3,700.0	3,637.7	3,662.1	3,675.9	12.8	11.7	-164.89	110.6	141.8	346.5	322.7	23.74	14.595	
3,800.0	3,734.0	3,761.0	3,773.8	13.2	12.1	-164.90	116.2	153.4	361.8	337.3	24.52	14.755	
3,900.0	3,830.3	3,859.8	3,871.8	13.7	12.5	-164.92	121.8	165.0	377.1	351.8	25.31	14.902	
4,000.0	3,926.6	3,958.6	3,969.8	14.2	12.8	-164.93	127.4	176.6	392.4	366.3	26.10	15.037	
4,100.0	4,022.9	4,057.4	4,067.8	14.6	13.2	-164.94	132.9	188.2	407.7	380.8	26.89	15.161	
4,200.0	4,119.2	4,156.2	4,165.8	15.1	13.6	-164.95	138.5	199.8	423.0	395.3	27.69	15.276	
4,300.0	4,215.4	4,255.1	4,263.7	15.6	14.0	-164.96	144.1	211.4	438.3	409.8	28.49	15.382	
4,400.0	4,311.7	4,353.9	4,361.7	16.0	14.4	-164.97	149.7	223.0	453.6	424.3	29.30	15.481	
4,500.0	4,408.0	4,452.7	4,459.7	16.5	14.8	-164.97	155.2	234.6	468.9	438.8	30.11	15.572	
4,600.0	4,504.3	4,551.5	4,557.7	17.0	15.2	-164.98	160.8	246.2	484.2	453.3	30.93	15.658	
4,700.0	4,600.6	4,650.3	4,655.7	17.4	15.6	-164.99	166.4	257.8	499.5	467.8	31.74	15.737	
4,800.0	4,696.9	4,749.2	4,753.6	17.9	16.0	-165.00	171.9	269.4	514.8	482.3	32.56	15.811	
4,900.0	4,793.2	4,848.0	4,851.6	18.4	16.4	-165.00	177.5	281.0	530.2	496.8	33.38	15.881	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
5,000.0	4,889.5	4,946.8	4,949.6	18.9	16.8	-165.01	183.1	292.5	545.5	511.2	34.21	15.946	
5,100.0	4,985.8	5,045.6	5,047.6	19.4	17.2	-165.01	188.7	304.1	560.8	525.7	35.03	16.007	
5,200.0	5,082.1	5,144.5	5,145.6	19.8	17.6	-165.02	194.2	315.7	576.1	540.2	35.86	16.064	
5,300.0	5,178.3	5,243.3	5,243.5	20.3	18.0	-165.02	199.8	327.3	591.4	554.7	36.69	16.120	
5,400.0	5,274.6	5,337.3	5,336.8	20.8	18.4	-165.04	205.0	338.1	606.9	569.4	37.48	16.193	
5,500.0	5,370.9	5,427.7	5,426.6	21.3	18.8	-165.12	209.4	347.4	623.7	585.4	38.26	16.301	
5,600.0	5,467.2	5,517.6	5,516.1	21.8	19.1	-165.27	213.2	355.3	641.7	602.7	39.03	16.444	
5,700.0	5,563.5	5,607.0	5,605.2	22.3	19.5	-165.47	216.4	361.9	661.1	621.3	39.78	16.617	
5,800.0	5,659.8	5,700.0	5,698.0	22.8	19.8	-165.73	219.1	367.4	681.8	641.2	40.57	16.804	
5,900.0	5,756.1	5,784.3	5,782.2	23.2	20.1	-166.02	220.9	371.2	703.8	662.5	41.27	17.053	
6,000.0	5,852.4	5,872.0	5,869.8	23.7	20.3	-166.35	222.3	374.1	727.0	685.1	41.98	17.318	
6,100.0	5,948.7	5,959.1	5,956.9	24.2	20.6	-166.72	223.0	375.7	751.6	709.0	42.67	17.616	
6,200.0	6,044.9	6,047.2	6,044.9	24.7	20.7	-167.12	223.2	376.1	777.5	734.2	43.30	17.957	
6,300.0	6,141.2	6,143.4	6,141.2	25.2	20.8	-167.54	223.2	376.1	803.9	760.0	43.94	18.297	
6,400.0	6,237.5	6,239.7	6,237.5	25.7	20.8	-167.95	223.2	376.1	830.3	785.7	44.58	18.626	
6,500.0	6,333.8	6,336.0	6,333.8	26.2	20.8	-168.32	223.2	376.1	856.8	811.6	45.22	18.946	
6,600.0	6,430.1	6,432.3	6,430.1	26.7	20.9	-168.68	223.2	376.1	883.3	837.4	45.86	19.259	
6,700.0	6,526.4	6,528.6	6,526.4	27.2	20.9	-169.01	223.2	376.1	909.8	863.3	46.50	19.564	
6,800.0	6,622.7	6,624.9	6,622.7	27.7	21.0	-169.32	223.2	376.1	936.3	889.2	47.14	19.861	
6,900.0	6,719.0	6,721.2	6,719.0	28.2	21.0	-169.62	223.2	376.1	962.9	915.1	47.78	20.151	
7,000.0	6,815.3	6,817.5	6,815.3	28.6	21.1	-169.90	223.2	376.1	989.5	941.0	48.42	20.433	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
0.0	0.0	0.0	30.0	0.0	0.0	-90.26	-0.3	-60.0	67.1				
100.0	100.0	70.0	100.0	0.7	0.8	-90.26	-0.3	-60.0	60.0	58.0	2.01	29.879	
200.0	200.0	170.0	200.0	1.4	1.6	-90.26	-0.3	-60.0	60.0	56.6	3.41	17.612	
300.0	300.0	270.0	300.0	1.9	2.0	-90.26	-0.3	-60.0	60.0	55.7	4.27	14.038	
400.0	400.0	370.0	400.0	2.2	2.3	-90.26	-0.3	-60.0	60.0	55.0	4.98	12.047	
500.0	500.0	470.0	500.0	2.5	2.6	-90.26	-0.3	-60.0	60.0	54.4	5.59	10.725	
600.0	600.0	570.0	600.0	2.8	2.9	-90.26	-0.3	-60.0	60.0	53.8	6.14	9.762	
700.0	700.0	670.0	700.0	3.1	3.2	-90.26	-0.3	-60.0	60.0	53.3	6.65	9.018	
800.0	800.0	770.0	800.0	3.3	3.4	-90.26	-0.3	-60.0	60.0	52.9	7.12	8.421	
900.0	900.0	870.0	900.0	3.6	3.6	-90.26	-0.3	-60.0	60.0	52.4	7.57	7.927	
1,000.0	1,000.0	970.0	1,000.0	3.8	3.8	-90.26	-0.3	-60.0	60.0	52.0	7.99	7.508	
1,100.0	1,100.0	1,070.0	1,100.0	4.0	4.0	-90.26	-0.3	-60.0	60.0	51.6	8.39	7.149	
1,200.0	1,200.0	1,170.0	1,200.0	4.2	4.2	-90.26	-0.3	-60.0	60.0	51.2	8.78	6.834	
1,300.0	1,300.0	1,270.0	1,300.0	4.4	4.4	-90.26	-0.3	-60.0	60.0	50.8	9.15	6.557	
1,400.0	1,400.0	1,370.0	1,400.0	4.5	4.6	-90.26	-0.3	-60.0	60.0	50.5	9.51	6.309	
1,500.0	1,500.0	1,470.0	1,500.0	4.7	4.8	-90.26	-0.3	-60.0	60.0	50.1	9.86	6.086 CC, ES	
1,600.0	1,600.0	1,571.5	1,601.4	5.0	5.0	-172.07	0.0	-59.1	60.9	50.5	10.35	5.883	
1,700.0	1,699.8	1,673.6	1,703.5	5.3	5.3	-171.72	1.1	-54.9	61.9	51.1	10.85	5.706	
1,800.0	1,799.5	1,775.7	1,805.3	5.5	5.6	-171.00	3.1	-47.2	63.0	51.6	11.37	5.540	
1,900.0	1,898.7	1,877.9	1,906.8	5.8	5.9	-169.92	6.1	-35.9	64.1	52.2	11.91	5.382	
2,000.0	1,997.5	1,980.0	2,007.8	6.2	6.2	-168.50	10.1	-21.2	65.2	52.8	12.47	5.230	
2,100.0	2,095.6	2,081.1	2,107.2	6.5	6.4	-166.92	14.8	-3.7	66.9	53.9	12.98	5.156 SF	
2,200.0	2,193.1	2,181.0	2,205.4	6.8	6.7	-166.00	19.5	14.0	71.6	58.1	13.58	5.277	
2,282.8	2,273.1	2,263.5	2,286.6	7.1	6.9	-165.81	23.4	28.7	78.1	64.1	14.07	5.553	
2,300.0	2,289.7	2,280.6	2,303.3	7.2	7.0	-165.82	24.2	31.7	79.7	65.5	14.16	5.629	
2,400.0	2,385.9	2,380.2	2,401.2	7.5	7.3	-165.89	28.9	49.4	88.9	74.1	14.81	6.005	
2,500.0	2,482.2	2,479.8	2,499.1	7.8	7.6	-165.94	33.7	67.0	98.2	82.7	15.47	6.346	
2,600.0	2,578.5	2,579.3	2,597.0	8.2	7.9	-165.99	38.4	84.7	107.4	91.2	16.15	6.648	
2,700.0	2,674.8	2,678.9	2,694.9	8.6	8.3	-166.03	43.1	102.4	116.6	99.7	16.86	6.915	
2,800.0	2,771.1	2,778.5	2,792.7	9.0	8.7	-166.06	47.8	120.0	125.8	108.2	17.60	7.151	
2,900.0	2,867.4	2,878.1	2,890.6	9.4	9.0	-166.09	52.5	137.7	135.1	116.7	18.35	7.361	
3,000.0	2,963.7	2,977.6	2,988.5	9.8	9.4	-166.11	57.3	155.4	144.3	125.2	19.12	7.547	
3,100.0	3,060.0	3,077.2	3,086.4	10.2	9.8	-166.14	62.0	173.0	153.5	133.6	19.90	7.714	
3,200.0	3,156.3	3,176.8	3,184.3	10.6	10.2	-166.15	66.7	190.7	162.7	142.0	20.70	7.863	
3,300.0	3,252.6	3,276.4	3,282.1	11.0	10.6	-166.17	71.4	208.4	171.9	150.4	21.50	7.996	
3,400.0	3,348.8	3,375.9	3,380.0	11.5	11.0	-166.19	76.1	226.0	181.2	158.8	22.32	8.116	
3,500.0	3,445.1	3,475.5	3,477.9	11.9	11.4	-166.20	80.9	243.7	190.4	167.2	23.15	8.225	
3,600.0	3,541.4	3,575.1	3,575.8	12.3	11.8	-166.21	85.6	261.4	199.6	175.6	23.98	8.323	
3,700.0	3,637.7	3,674.7	3,673.7	12.8	12.2	-166.23	90.3	279.0	208.8	184.0	24.83	8.411	
3,800.0	3,734.0	3,774.2	3,771.5	13.2	12.6	-166.24	95.0	296.7	218.1	192.4	25.68	8.492	
3,900.0	3,830.3	3,873.8	3,869.4	13.7	13.0	-166.25	99.7	314.4	227.3	200.8	26.53	8.566	
4,000.0	3,926.6	3,973.4	3,967.3	14.2	13.5	-166.26	104.4	332.0	236.5	209.1	27.40	8.633	
4,100.0	4,022.9	4,073.0	4,065.2	14.6	13.9	-166.26	109.2	349.7	245.7	217.5	28.26	8.695	
4,200.0	4,119.2	4,172.5	4,163.1	15.1	14.3	-166.27	113.9	367.4	255.0	225.8	29.13	8.752	
4,300.0	4,215.4	4,272.1	4,261.0	15.6	14.7	-166.28	118.6	385.0	264.2	234.2	30.01	8.804	
4,400.0	4,311.7	4,371.7	4,358.8	16.0	15.2	-166.29	123.3	402.7	273.4	242.5	30.89	8.852	
4,500.0	4,408.0	4,471.2	4,456.7	16.5	15.6	-166.29	128.0	420.4	282.6	250.9	31.77	8.897	
4,600.0	4,504.3	4,570.8	4,554.6	17.0	16.0	-166.30	132.8	438.0	291.9	259.2	32.65	8.938	
4,700.0	4,600.6	4,670.4	4,652.5	17.4	16.5	-166.30	137.5	455.7	301.1	267.5	33.54	8.976	
4,800.0	4,696.9	4,770.0	4,750.4	17.9	16.9	-166.31	142.2	473.4	310.3	275.9	34.43	9.012	
4,900.0	4,793.2	4,869.5	4,848.2	18.4	17.4	-166.31	146.9	491.0	319.5	284.2	35.32	9.045	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
5,000.0	4,889.5	4,969.1	4,946.1	18.9	17.8	-166.32	151.6	508.7	328.7	292.5	36.22	9.076	
5,100.0	4,985.8	5,068.7	5,044.0	19.4	18.2	-166.32	156.4	526.4	338.0	300.9	37.12	9.105	
5,200.0	5,082.1	5,168.3	5,141.9	19.8	18.7	-166.33	161.1	544.0	347.2	309.2	38.02	9.132	
5,300.0	5,178.3	5,267.8	5,239.8	20.3	19.1	-166.33	165.8	561.7	356.4	317.5	38.92	9.158	
5,400.0	5,274.6	5,367.4	5,337.6	20.8	19.6	-166.33	170.5	579.4	365.6	325.8	39.82	9.182	
5,500.0	5,370.9	5,467.0	5,435.5	21.3	20.0	-166.34	175.2	597.0	374.9	334.1	40.73	9.204	
5,600.0	5,467.2	5,566.6	5,533.4	21.8	20.5	-166.34	180.0	614.7	384.1	342.5	41.63	9.226	
5,700.0	5,563.5	5,666.1	5,631.3	22.3	20.9	-166.34	184.7	632.4	393.3	350.8	42.54	9.246	
5,800.0	5,659.8	5,765.7	5,729.2	22.8	21.3	-166.35	189.4	650.0	402.5	359.1	43.45	9.265	
5,900.0	5,756.1	5,865.3	5,827.0	23.2	21.8	-166.35	194.1	667.7	411.8	367.4	44.36	9.282	
6,000.0	5,852.4	5,964.9	5,924.9	23.7	22.2	-166.35	198.8	685.4	421.0	375.7	45.27	9.299	
6,100.0	5,948.7	6,061.4	6,019.9	24.2	22.7	-166.36	203.4	702.4	430.4	384.2	46.15	9.324	
6,200.0	6,044.9	6,154.2	6,111.3	24.7	23.1	-166.43	207.4	717.5	441.0	394.0	47.01	9.381	
6,300.0	6,141.2	6,246.7	6,202.7	25.2	23.5	-166.56	211.0	731.1	453.2	405.4	47.86	9.469	
6,400.0	6,237.5	6,338.8	6,294.0	25.7	23.9	-166.74	214.3	743.2	466.9	418.2	48.70	9.587	
6,500.0	6,333.8	6,430.5	6,385.0	26.2	24.2	-166.98	217.1	753.9	482.1	432.6	49.53	9.734	
6,600.0	6,430.1	6,521.7	6,475.7	26.7	24.6	-167.26	219.6	763.1	498.8	448.5	50.34	9.909	
6,700.0	6,526.4	6,612.3	6,566.0	27.2	25.0	-167.57	221.7	770.9	517.0	465.8	51.13	10.111	
6,800.0	6,622.7	6,700.0	6,653.4	27.7	25.3	-167.90	223.3	777.1	536.6	484.8	51.86	10.348	
6,900.0	6,719.0	6,792.0	6,745.3	28.2	25.6	-168.27	224.7	782.2	557.8	505.1	52.64	10.595	
7,000.0	6,815.3	6,881.0	6,834.2	28.6	25.9	-168.64	225.7	785.8	580.4	527.0	53.36	10.877	
7,100.0	6,911.6	6,969.2	6,922.4	29.1	26.1	-169.03	226.3	788.1	604.5	550.4	54.03	11.187	
7,143.8	6,953.7	7,007.7	6,960.8	29.4	26.2	-169.21	226.4	788.7	615.5	561.1	54.31	11.333	
7,200.0	7,007.9	7,056.9	7,010.0	29.6	26.3	-169.45	226.5	789.0	629.7	575.1	54.60	11.533	
7,300.0	7,104.7	7,151.5	7,104.7	30.1	26.4	-169.89	226.5	789.1	654.5	599.3	55.18	11.861	
7,400.0	7,201.9	7,248.7	7,201.9	30.6	26.4	-170.28	226.5	789.1	677.7	621.9	55.77	12.151	
7,500.0	7,299.5	7,346.3	7,299.5	31.1	26.4	-170.62	226.5	789.1	699.2	642.8	56.35	12.408	
7,600.0	7,397.4	7,444.3	7,397.4	31.5	26.5	-170.91	226.5	789.1	719.0	662.1	56.91	12.634	
7,700.0	7,495.7	7,542.6	7,495.7	32.0	26.5	-171.17	226.5	789.1	737.2	679.7	57.47	12.828	
7,800.0	7,594.3	7,641.2	7,594.3	32.4	26.5	-171.38	226.5	789.1	753.7	695.7	58.01	12.993	
7,900.0	7,693.2	7,740.1	7,693.2	32.9	26.6	-171.57	226.5	789.1	768.5	709.9	58.54	13.128	
8,000.0	7,792.3	7,839.2	7,792.3	33.3	26.6	-171.73	226.5	789.1	781.5	722.5	59.05	13.236	
8,100.0	7,891.7	7,938.5	7,891.7	33.7	26.6	-171.87	226.5	789.1	792.9	733.4	59.55	13.316	
8,200.0	7,991.2	8,038.0	7,991.2	34.1	26.7	-171.98	226.5	789.1	802.6	742.5	60.03	13.370	
8,300.0	8,090.9	8,137.7	8,090.9	34.5	26.7	-172.07	226.5	789.1	810.5	750.0	60.48	13.400	
8,400.0	8,190.7	8,237.5	8,190.7	34.9	26.8	-172.14	226.5	789.1	816.7	755.8	60.92	13.407	
8,500.0	8,290.6	8,337.4	8,290.6	35.2	26.8	-172.19	226.5	789.1	821.2	759.9	61.32	13.392	
8,600.0	8,390.5	8,437.4	8,390.5	35.5	26.8	-172.22	226.5	789.1	823.9	762.3	61.68	13.358	
8,700.0	8,490.5	8,537.4	8,490.5	35.6	26.9	-172.23	226.5	789.1	825.0	763.1	61.89	13.331	
8,709.5	8,500.0	8,546.9	8,500.0	35.6	26.9	-90.44	226.5	789.1	825.0	763.1	61.90	13.327	
8,800.0	8,590.5	8,637.4	8,590.5	35.7	26.9	-90.44	226.5	789.1	825.0	763.0	61.96	13.315	
8,900.0	8,690.5	8,737.4	8,690.5	35.7	26.9	-90.44	226.5	789.1	825.0	763.0	62.02	13.302	
9,000.0	8,790.5	8,837.4	8,790.5	35.7	27.0	-90.44	226.5	789.1	825.0	762.9	62.08	13.289	
9,100.0	8,890.5	8,937.4	8,890.5	35.7	27.0	-90.44	226.5	789.1	825.0	762.8	62.14	13.276	
9,200.0	8,990.5	9,037.4	8,990.5	35.8	27.1	-90.44	226.5	789.1	825.0	762.8	62.20	13.263	
9,300.0	9,090.5	9,137.4	9,090.5	35.8	27.1	-90.44	226.5	789.1	825.0	762.7	62.27	13.249	
9,400.0	9,190.5	9,237.4	9,190.5	35.8	27.1	-90.44	226.5	789.1	825.0	762.7	62.33	13.236	
9,500.0	9,290.5	9,337.4	9,290.5	35.8	27.2	-90.44	226.5	789.1	825.0	762.6	62.39	13.223	
9,600.0	9,390.5	9,437.4	9,390.5	35.9	27.2	-90.44	226.5	789.1	825.0	762.5	62.45	13.209	
9,700.0	9,490.5	9,537.4	9,490.5	35.9	27.3	-90.44	226.5	789.1	825.0	762.5	62.52	13.196	
9,800.0	9,590.5	9,637.4	9,590.5	35.9	27.3	-90.44	226.5	789.1	825.0	762.4	62.58	13.182	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
9,900.0	9,690.5	9,737.4	9,690.5	36.0	27.3	-90.44	226.5	789.1	825.0	762.3	62.65	13.169	
10,000.0	9,790.5	9,837.4	9,790.5	36.0	27.4	-90.44	226.5	789.1	825.0	762.3	62.71	13.155	
10,100.0	9,890.5	9,937.4	9,890.5	36.0	27.4	-90.44	226.5	789.1	825.0	762.2	62.78	13.141	
10,200.0	9,990.5	10,037.4	9,990.5	36.0	27.5	-90.44	226.5	789.1	825.0	762.1	62.84	13.128	
10,300.0	10,090.5	10,137.4	10,090.5	36.1	27.5	-90.44	226.5	789.1	825.0	762.1	62.91	13.114	
10,400.0	10,190.5	10,237.4	10,190.5	36.1	27.5	-90.44	226.5	789.1	825.0	762.0	62.98	13.100	
10,500.0	10,290.5	10,337.4	10,290.5	36.1	27.6	-90.44	226.5	789.1	825.0	761.9	63.04	13.086	
10,600.0	10,390.5	10,437.4	10,390.5	36.2	27.6	-90.44	226.5	789.1	825.0	761.9	63.11	13.072	
10,700.0	10,490.5	10,537.4	10,490.5	36.2	27.7	-90.44	226.5	789.1	825.0	761.8	63.18	13.058	
10,800.0	10,590.5	10,637.4	10,590.5	36.2	27.7	-90.44	226.5	789.1	825.0	761.7	63.24	13.045	
10,900.0	10,690.5	10,737.4	10,690.5	36.2	27.8	-90.44	226.5	789.1	825.0	761.7	63.31	13.031	
11,000.0	10,790.5	10,837.4	10,790.5	36.3	27.8	-90.44	226.5	789.1	825.0	761.6	63.38	13.016	
11,100.0	10,890.5	10,937.4	10,890.5	36.3	27.8	-90.44	226.5	789.1	825.0	761.5	63.45	13.002	
11,200.0	10,990.5	11,037.4	10,990.5	36.3	27.9	-90.44	226.5	789.1	825.0	761.5	63.52	12.988	
11,300.0	11,090.5	11,137.4	11,090.5	36.4	27.9	-90.44	226.5	789.1	825.0	761.4	63.59	12.974	
11,400.0	11,190.5	11,237.4	11,190.5	36.4	28.0	-90.44	226.5	789.1	825.0	761.3	63.66	12.960	
11,500.0	11,290.5	11,337.4	11,290.5	36.4	28.0	-90.44	226.5	789.1	825.0	761.3	63.73	12.946	
11,600.0	11,390.5	11,437.4	11,390.5	36.4	28.1	-90.44	226.5	789.1	825.0	761.2	63.80	12.931	
11,700.0	11,490.5	11,537.4	11,490.5	36.5	28.1	-90.44	226.5	789.1	825.0	761.1	63.87	12.917	
11,800.0	11,590.5	11,637.4	11,590.5	36.5	28.1	-90.44	226.5	789.1	825.0	761.0	63.94	12.903	
11,900.0	11,690.5	11,737.4	11,690.5	36.5	28.2	-90.44	226.5	789.1	825.0	761.0	64.01	12.888	
12,000.0	11,790.5	11,837.4	11,790.5	36.6	28.2	-90.44	226.5	789.1	825.0	760.9	64.08	12.874	
12,100.0	11,890.5	11,937.4	11,890.5	36.6	28.3	-90.44	226.5	789.1	825.0	760.8	64.15	12.860	
12,102.0	11,892.5	11,939.4	11,892.5	36.6	28.3	-90.44	226.5	789.1	825.0	760.8	64.15	12.860	
12,103.0	11,893.5	11,940.4	11,893.5	36.6	28.3	90.01	226.5	789.1	825.0	760.8	64.15	12.860	
12,125.0	11,915.5	11,962.4	11,915.5	36.6	28.3	90.05	226.5	789.1	825.0	760.8	64.15	12.859	
12,150.0	11,940.4	11,987.4	11,940.5	36.6	28.3	90.16	226.2	789.1	825.0	760.8	64.14	12.862	
12,175.0	11,965.2	12,012.5	11,965.6	36.6	28.3	90.26	224.6	789.1	825.0	760.9	64.12	12.866	
12,200.0	11,989.8	12,037.7	11,990.6	36.5	28.2	90.37	221.6	789.1	825.0	760.9	64.11	12.869	
12,225.0	12,014.2	12,063.0	12,015.5	36.5	28.2	90.48	217.4	789.1	825.0	760.9	64.09	12.872	
12,250.0	12,038.2	12,088.3	12,040.2	36.5	28.2	90.59	211.8	789.2	825.0	760.9	64.08	12.874	
12,275.0	12,061.8	12,113.8	12,064.7	36.5	28.1	90.69	204.9	789.2	825.0	761.0	64.07	12.877	
12,300.0	12,084.9	12,139.3	12,088.9	36.5	28.1	90.79	196.6	789.3	825.1	761.0	64.07	12.878	
12,325.0	12,107.5	12,164.9	12,112.6	36.5	28.1	90.89	187.0	789.4	825.1	761.0	64.06	12.879	
12,350.0	12,129.5	12,190.6	12,135.9	36.4	28.0	90.99	176.2	789.5	825.1	761.0	64.06	12.880	
12,375.0	12,150.9	12,216.4	12,158.6	36.4	28.0	91.09	164.0	789.6	825.1	761.1	64.06	12.880	
12,400.0	12,171.5	12,242.2	12,180.8	36.4	28.0	91.18	150.7	789.7	825.2	761.1	64.07	12.879	
12,425.0	12,191.4	12,268.2	12,202.2	36.4	28.0	91.27	136.0	789.8	825.2	761.1	64.08	12.878	
12,450.0	12,210.5	12,294.2	12,222.8	36.4	27.9	91.36	120.3	789.9	825.2	761.1	64.09	12.876	
12,475.0	12,228.7	12,320.2	12,242.6	36.4	27.9	91.44	103.3	790.0	825.2	761.1	64.11	12.873	
12,500.0	12,246.0	12,346.4	12,261.5	36.4	27.9	91.52	85.3	790.2	825.3	761.1	64.13	12.869	
12,525.0	12,262.3	12,372.6	12,279.5	36.4	27.9	91.59	66.2	790.3	825.3	761.2	64.15	12.865	
12,550.0	12,277.6	12,398.9	12,296.4	36.4	27.9	91.66	46.0	790.5	825.3	761.2	64.18	12.859	
12,575.0	12,291.9	12,425.2	12,312.2	36.4	27.8	91.73	25.0	790.7	825.4	761.1	64.21	12.853	
12,600.0	12,305.0	12,451.6	12,326.8	36.4	27.8	91.79	3.0	790.8	825.4	761.1	64.25	12.846	
12,625.0	12,317.0	12,478.0	12,340.3	36.4	27.8	91.84	-19.7	791.0	825.4	761.1	64.29	12.839	
12,650.0	12,327.9	12,504.5	12,352.4	36.4	27.8	91.89	-43.2	791.2	825.4	761.1	64.34	12.830	
12,675.0	12,337.5	12,531.0	12,363.3	36.4	27.8	91.94	-67.4	791.4	825.5	761.1	64.38	12.821	
12,700.0	12,346.0	12,557.6	12,372.8	36.4	27.8	91.98	-92.2	791.6	825.5	761.0	64.44	12.811	
12,725.0	12,353.2	12,584.2	12,381.0	36.4	27.8	92.01	-117.5	791.8	825.5	761.0	64.49	12.800	
12,750.0	12,359.1	12,610.8	12,387.7	36.4	27.9	92.03	-143.3	792.0	825.5	761.0	64.55	12.789	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
12,775.0	12,363.8	12,637.4	12,393.0	36.4	27.9	92.06	-169.4	792.2	825.5	760.9	64.61	12.777	
12,800.0	12,367.1	12,664.1	12,396.8	36.4	27.9	92.07	-195.8	792.4	825.5	760.9	64.67	12.765	
12,825.0	12,369.2	12,690.8	12,399.1	36.5	27.9	92.08	-222.3	792.6	825.5	760.8	64.74	12.752	
12,852.0	12,370.0	12,719.6	12,400.0	36.5	28.0	92.08	-251.1	792.9	825.5	760.7	64.81	12.738	
12,868.0	12,370.0	12,735.6	12,400.0	36.5	28.0	92.08	-267.1	793.0	825.5	760.7	64.85	12.730	
12,900.0	12,370.0	12,767.6	12,400.0	36.5	28.0	92.08	-299.1	793.2	825.5	760.6	64.93	12.715	
13,000.0	12,370.0	12,867.6	12,400.0	36.7	28.2	92.08	-399.1	794.0	825.5	760.3	65.22	12.658	
13,100.0	12,370.0	12,967.6	12,400.0	36.8	28.4	92.08	-499.1	794.8	825.5	760.0	65.57	12.590	
13,200.0	12,370.0	13,067.6	12,400.0	37.0	28.6	92.08	-599.1	795.6	825.5	759.6	65.97	12.514	
13,300.0	12,370.0	13,167.6	12,400.0	37.2	28.8	92.08	-699.1	796.4	825.5	759.1	66.42	12.428	
13,400.0	12,370.0	13,267.6	12,400.0	37.4	29.1	92.08	-799.1	797.2	825.5	758.6	66.93	12.335	
13,500.0	12,370.0	13,367.6	12,400.0	37.7	29.4	92.08	-899.1	798.0	825.5	758.0	67.48	12.233	
13,600.0	12,370.0	13,467.6	12,400.0	38.0	29.8	92.08	-999.1	798.8	825.5	757.4	68.09	12.125	
13,700.0	12,370.0	13,567.6	12,400.0	38.3	30.1	92.08	-1,099.1	799.6	825.5	756.8	68.74	12.010	
13,800.0	12,370.0	13,667.6	12,400.0	38.6	30.5	92.08	-1,199.1	800.4	825.5	756.1	69.44	11.889	
13,900.0	12,370.0	13,767.6	12,400.0	38.9	30.9	92.08	-1,299.1	801.2	825.5	755.4	70.18	11.763	
14,000.0	12,370.0	13,867.6	12,400.0	39.3	31.4	92.08	-1,399.1	802.0	825.5	754.6	70.97	11.633	
14,100.0	12,370.0	13,967.6	12,400.0	39.7	31.8	92.08	-1,499.1	802.8	825.5	753.7	71.79	11.499	
14,200.0	12,370.0	14,067.6	12,400.0	40.1	32.3	92.08	-1,599.1	803.6	825.5	752.9	72.66	11.361	
14,300.0	12,370.0	14,167.6	12,400.0	40.5	32.8	92.08	-1,699.1	804.4	825.5	752.0	73.57	11.221	
14,400.0	12,370.0	14,267.6	12,400.0	40.9	33.3	92.08	-1,799.1	805.2	825.5	751.0	74.52	11.079	
14,500.0	12,370.0	14,367.6	12,400.0	41.4	33.9	92.08	-1,899.1	806.0	825.5	750.0	75.50	10.934	
14,600.0	12,370.0	14,467.6	12,400.0	41.8	34.4	92.08	-1,999.1	806.7	825.5	749.0	76.51	10.789	
14,700.0	12,370.0	14,567.6	12,400.0	42.3	35.0	92.08	-2,099.1	807.5	825.5	748.0	77.56	10.643	
14,800.0	12,370.0	14,667.6	12,400.0	42.8	35.6	92.08	-2,199.1	808.3	825.5	746.9	78.65	10.497	
14,900.0	12,370.0	14,767.6	12,400.0	43.3	36.2	92.08	-2,299.1	809.1	825.5	745.8	79.76	10.350	
15,000.0	12,370.0	14,867.6	12,400.0	43.9	36.8	92.08	-2,399.1	809.9	825.5	744.6	80.90	10.204	
15,100.0	12,370.0	14,967.6	12,400.0	44.4	37.4	92.08	-2,499.0	810.7	825.5	743.5	82.07	10.059	
15,200.0	12,370.0	15,067.6	12,400.0	45.0	38.1	92.08	-2,599.0	811.5	825.5	742.3	83.27	9.914	
15,300.0	12,370.0	15,167.6	12,400.0	45.6	38.7	92.08	-2,699.0	812.3	825.5	741.0	84.49	9.770	
15,400.0	12,370.0	15,267.6	12,400.0	46.1	39.4	92.08	-2,799.0	813.1	825.5	739.8	85.74	9.628	
15,500.0	12,370.0	15,367.6	12,400.0	46.7	40.1	92.08	-2,899.0	813.9	825.5	738.5	87.02	9.487	
15,600.0	12,370.0	15,467.6	12,400.0	47.4	40.8	92.08	-2,999.0	814.7	825.5	737.2	88.31	9.348	
15,700.0	12,370.0	15,567.6	12,400.0	48.0	41.5	92.08	-3,099.0	815.5	825.5	735.9	89.63	9.211	
15,800.0	12,370.0	15,667.6	12,400.0	48.6	42.2	92.08	-3,199.0	816.3	825.5	734.6	90.96	9.075	
15,900.0	12,370.0	15,767.6	12,400.0	49.3	43.0	92.08	-3,299.0	817.1	825.5	733.2	92.32	8.942	
16,000.0	12,370.0	15,867.6	12,400.0	49.9	43.7	92.08	-3,399.0	817.9	825.5	731.8	93.70	8.811	
16,100.0	12,370.0	15,967.6	12,400.0	50.6	44.4	92.08	-3,499.0	818.7	825.5	730.4	95.09	8.681	
16,200.0	12,370.0	16,067.6	12,400.0	51.2	45.2	92.08	-3,599.0	819.5	825.5	729.0	96.50	8.554	
16,300.0	12,370.0	16,167.6	12,400.0	51.9	45.9	92.08	-3,699.0	820.3	825.5	727.6	97.93	8.430	
16,400.0	12,370.0	16,267.6	12,400.0	52.6	46.7	92.08	-3,799.0	821.1	825.5	726.2	99.38	8.307	
16,500.0	12,370.0	16,367.6	12,400.0	53.3	47.5	92.08	-3,899.0	821.8	825.5	724.7	100.84	8.187	
16,600.0	12,370.0	16,467.6	12,400.0	54.0	48.3	92.08	-3,999.0	822.6	825.5	723.2	102.31	8.069	
16,700.0	12,370.0	16,567.6	12,400.0	54.7	49.1	92.08	-4,099.0	823.4	825.5	721.7	103.80	7.953	
16,800.0	12,370.0	16,667.6	12,400.0	55.4	49.9	92.08	-4,199.0	824.2	825.5	720.2	105.30	7.840	
16,900.0	12,370.0	16,767.6	12,400.0	56.2	50.7	92.08	-4,299.0	825.0	825.5	718.7	106.81	7.729	
17,000.0	12,370.0	16,867.6	12,400.0	56.9	51.5	92.08	-4,399.0	825.8	825.5	717.2	108.34	7.620	
17,100.0	12,370.0	16,967.6	12,400.0	57.6	52.3	92.08	-4,499.0	826.6	825.5	715.7	109.88	7.513	
17,200.0	12,370.0	17,067.6	12,400.0	58.4	53.1	92.08	-4,599.0	827.4	825.5	714.1	111.43	7.409	
17,300.0	12,370.0	17,167.6	12,400.0	59.1	53.9	92.08	-4,699.0	828.2	825.5	712.5	112.99	7.306	
17,400.0	12,370.0	17,267.6	12,400.0	59.9	54.7	92.08	-4,799.0	829.0	825.5	711.0	114.56	7.206	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
17,500.0	12,370.0	17,367.6	12,400.0	60.7	55.6	92.08	-4,899.0	829.8	825.5	709.4	116.14	7.108	
17,600.0	12,370.0	17,467.6	12,400.0	61.4	56.4	92.08	-4,999.0	830.6	825.5	707.8	117.73	7.012	
17,700.0	12,370.0	17,567.6	12,400.0	62.2	57.2	92.08	-5,099.0	831.4	825.5	706.2	119.33	6.918	
17,800.0	12,370.0	17,667.6	12,400.0	63.0	58.1	92.08	-5,199.0	832.2	825.5	704.6	120.94	6.826	
17,900.0	12,370.0	17,767.6	12,400.0	63.8	58.9	92.08	-5,299.0	833.0	825.5	703.0	122.55	6.736	
18,000.0	12,370.0	17,867.6	12,400.0	64.6	59.8	92.08	-5,399.0	833.8	825.5	701.4	124.18	6.648	
18,100.0	12,370.0	17,967.6	12,400.0	65.4	60.6	92.08	-5,499.0	834.6	825.5	699.7	125.81	6.562	
18,200.0	12,370.0	18,067.6	12,400.0	66.2	61.5	92.08	-5,599.0	835.4	825.5	698.1	127.45	6.477	
18,300.0	12,370.0	18,167.6	12,400.0	67.0	62.4	92.08	-5,698.9	836.1	825.5	696.4	129.10	6.395	
18,400.0	12,370.0	18,267.6	12,400.0	67.8	63.2	92.08	-5,798.9	836.9	825.5	694.8	130.75	6.314	
18,500.0	12,370.0	18,367.6	12,400.0	68.6	64.1	92.08	-5,898.9	837.7	825.5	693.1	132.41	6.235	
18,600.0	12,370.0	18,467.6	12,400.0	69.4	65.0	92.08	-5,998.9	838.5	825.5	691.5	134.08	6.157	
18,700.0	12,370.0	18,567.6	12,400.0	70.2	65.8	92.08	-6,098.9	839.3	825.5	689.8	135.75	6.081	
18,800.0	12,370.0	18,667.6	12,400.0	71.0	66.7	92.08	-6,198.9	840.1	825.5	688.1	137.43	6.007	
18,900.0	12,370.0	18,767.6	12,400.0	71.9	67.6	92.08	-6,298.9	840.9	825.5	686.4	139.11	5.934	
19,000.0	12,370.0	18,867.6	12,400.0	72.7	68.4	92.08	-6,398.9	841.7	825.5	684.7	140.80	5.863	
19,100.0	12,370.0	18,967.6	12,400.0	73.5	69.3	92.08	-6,498.9	842.5	825.5	683.0	142.50	5.793	
19,200.0	12,370.0	19,067.6	12,400.0	74.4	70.2	92.08	-6,598.9	843.3	825.5	681.3	144.20	5.725	
19,300.0	12,370.0	19,167.6	12,400.0	75.2	71.1	92.08	-6,698.9	844.1	825.5	679.6	145.90	5.658	
19,400.0	12,370.0	19,267.6	12,400.0	76.0	72.0	92.08	-6,798.9	844.9	825.5	677.9	147.61	5.592	
19,500.0	12,370.0	19,367.6	12,400.0	76.9	72.9	92.08	-6,898.9	845.7	825.5	676.2	149.33	5.528	
19,600.0	12,370.0	19,467.6	12,400.0	77.7	73.8	92.08	-6,998.9	846.5	825.5	674.5	151.05	5.465	
19,700.0	12,370.0	19,567.6	12,400.0	78.6	74.7	92.08	-7,098.9	847.3	825.5	672.8	152.77	5.404	
19,800.0	12,370.0	19,667.6	12,400.0	79.4	75.6	92.08	-7,198.9	848.1	825.5	671.0	154.50	5.343	
19,900.0	12,370.0	19,767.6	12,400.0	80.3	76.4	92.08	-7,298.9	848.9	825.5	669.3	156.23	5.284	
20,000.0	12,370.0	19,867.6	12,400.0	81.1	77.3	92.08	-7,398.9	849.7	825.5	667.6	157.97	5.226	
20,100.0	12,370.0	19,967.5	12,400.0	82.0	78.2	92.08	-7,498.9	850.4	825.5	665.8	159.70	5.169	
20,102.2	12,370.0	19,969.8	12,400.0	82.0	78.3	92.08	-7,501.1	850.5	825.5	665.8	159.74	5.168	
20,103.3	12,370.0	19,969.8	12,400.0	82.0	78.3	92.08	-7,501.1	850.5	825.5	665.8	159.74	5.168	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 705H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
0.0	0.0	0.0	30.0	0.0	0.0	-90.38	-1.0	-149.7	152.7				
100.0	100.0	70.0	100.0	0.7	0.8	-90.38	-1.0	-149.7	149.7	147.7	2.01	74.568	
200.0	200.0	170.0	200.0	1.4	1.6	-90.38	-1.0	-149.7	149.7	146.3	3.41	43.955	
300.0	300.0	270.0	300.0	1.9	2.0	-90.38	-1.0	-149.7	149.7	145.4	4.27	35.034	
400.0	400.0	370.0	400.0	2.2	2.3	-90.38	-1.0	-149.7	149.7	144.7	4.98	30.066	
500.0	500.0	470.0	500.0	2.5	2.6	-90.38	-1.0	-149.7	149.7	144.1	5.59	26.767	
600.0	600.0	570.0	600.0	2.8	2.9	-90.38	-1.0	-149.7	149.7	143.6	6.14	24.363	
700.0	700.0	670.0	700.0	3.1	3.2	-90.38	-1.0	-149.7	149.7	143.1	6.65	22.507	
800.0	800.0	770.0	800.0	3.3	3.4	-90.38	-1.0	-149.7	149.7	142.6	7.12	21.016	
900.0	900.0	870.0	900.0	3.6	3.6	-90.38	-1.0	-149.7	149.7	142.1	7.57	19.782	
1,000.0	1,000.0	970.0	1,000.0	3.8	3.8	-90.38	-1.0	-149.7	149.7	141.7	7.99	18.739	
1,100.0	1,100.0	1,070.0	1,100.0	4.0	4.0	-90.38	-1.0	-149.7	149.7	141.3	8.39	17.841	
1,200.0	1,200.0	1,170.0	1,200.0	4.2	4.2	-90.38	-1.0	-149.7	149.7	140.9	8.78	17.056	CC, ES
1,300.0	1,300.0	1,267.2	1,297.2	4.4	4.5	-90.20	-0.5	-150.3	150.4	141.2	9.19	16.364	
1,400.0	1,400.0	1,363.0	1,392.9	4.5	4.8	-89.35	1.7	-153.4	153.6	144.0	9.61	15.992	
1,500.0	1,500.0	1,460.5	1,490.2	4.7	5.0	-87.93	5.7	-158.9	159.4	149.4	9.99	15.949	SF
1,600.0	1,600.0	1,560.1	1,589.5	5.0	5.2	-168.38	10.1	-164.9	167.3	156.8	10.47	15.980	
1,700.0	1,699.8	1,659.4	1,688.6	5.3	5.5	-167.39	14.4	-170.9	178.6	167.7	10.94	16.334	
1,800.0	1,799.5	1,758.3	1,787.2	5.5	5.7	-166.73	18.7	-176.8	193.4	182.0	11.43	16.928	
1,900.0	1,898.7	1,856.7	1,885.2	5.8	6.0	-166.37	23.0	-182.7	211.6	199.6	11.94	17.722	
2,000.0	1,997.5	1,954.3	1,982.6	6.2	6.2	-166.24	27.3	-188.5	233.0	220.6	12.47	18.684	
2,100.0	2,095.6	2,051.2	2,079.2	6.5	6.5	-166.29	31.5	-194.3	257.8	244.8	13.03	19.787	
2,200.0	2,193.1	2,147.2	2,175.0	6.8	6.8	-166.47	35.7	-200.1	285.8	272.2	13.60	21.011	
2,282.8	2,273.1	2,225.9	2,253.5	7.1	7.0	-166.67	39.1	-204.8	311.5	297.5	14.06	22.163	
2,300.0	2,289.7	2,242.1	2,269.7	7.2	7.1	-166.75	39.8	-205.8	317.1	303.0	14.14	22.426	
2,400.0	2,385.9	2,336.7	2,364.0	7.5	7.4	-167.12	43.9	-211.4	349.5	334.8	14.71	23.753	
2,500.0	2,482.2	2,431.3	2,458.3	7.8	7.7	-167.44	48.1	-217.1	381.8	366.6	15.28	24.984	
2,600.0	2,578.5	2,525.9	2,552.7	8.2	8.0	-167.70	52.2	-222.8	414.2	398.4	15.88	26.093	
2,700.0	2,674.8	2,620.5	2,647.0	8.6	8.3	-167.93	56.3	-228.4	446.6	430.2	16.48	27.095	
2,800.0	2,771.1	2,715.1	2,741.3	9.0	8.6	-168.13	60.4	-234.1	479.0	461.9	17.11	28.000	
2,900.0	2,867.4	2,809.7	2,835.7	9.4	8.9	-168.30	64.5	-239.8	511.4	493.7	17.75	28.818	
3,000.0	2,963.7	2,904.3	2,930.0	9.8	9.2	-168.45	68.7	-245.4	543.9	525.5	18.40	29.561	
3,100.0	3,060.0	2,998.9	3,024.3	10.2	9.5	-168.58	72.8	-251.1	576.3	557.2	19.06	30.234	
3,200.0	3,156.3	3,093.5	3,118.7	10.6	9.8	-168.70	76.9	-256.8	608.7	589.0	19.73	30.847	
3,300.0	3,252.6	3,188.1	3,213.0	11.0	10.1	-168.81	81.0	-262.4	641.1	620.7	20.41	31.406	
3,400.0	3,348.8	3,282.7	3,307.3	11.5	10.5	-168.91	85.2	-268.1	673.5	652.4	21.10	31.917	
3,500.0	3,445.1	3,377.2	3,401.7	11.9	10.8	-169.00	89.3	-273.8	705.9	684.1	21.80	32.384	
3,600.0	3,541.4	3,471.8	3,496.0	12.3	11.1	-169.08	93.4	-279.4	738.4	715.9	22.50	32.813	
3,700.0	3,637.7	3,566.4	3,590.3	12.8	11.4	-169.15	97.5	-285.1	770.8	747.6	23.21	33.207	
3,800.0	3,734.0	3,661.0	3,684.7	13.2	11.8	-169.22	101.7	-290.8	803.2	779.3	23.93	33.570	
3,900.0	3,830.3	3,755.6	3,779.0	13.7	12.1	-169.28	105.8	-296.4	835.6	811.0	24.65	33.906	
4,000.0	3,926.6	3,850.2	3,873.3	14.2	12.4	-169.34	109.9	-302.1	868.1	842.7	25.37	34.216	
4,100.0	4,022.9	3,944.8	3,967.7	14.6	12.8	-169.39	114.0	-307.8	900.5	874.4	26.10	34.503	
4,200.0	4,119.2	4,039.4	4,062.0	15.1	13.1	-169.44	118.1	-313.4	932.9	906.1	26.83	34.769	
4,300.0	4,215.4	4,134.0	4,156.3	15.6	13.4	-169.49	122.3	-319.1	965.4	937.8	27.57	35.017	
4,400.0	4,311.7	4,228.6	4,250.7	16.0	13.8	-169.53	126.4	-324.8	997.8	969.5	28.31	35.248	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
0.0	0.0	0.0	30.0	0.0	0.0	-90.36	-0.8	-120.0	123.7				
100.0	100.0	70.0	100.0	0.7	0.8	-90.36	-0.8	-120.0	120.0	118.0	2.01	59.765	
200.0	200.0	170.0	200.0	1.4	1.6	-90.36	-0.8	-120.0	120.0	116.6	3.41	35.229	
300.0	300.0	270.0	300.0	1.9	2.0	-90.36	-0.8	-120.0	120.0	115.7	4.27	28.079	
400.0	400.0	370.0	400.0	2.2	2.3	-90.36	-0.8	-120.0	120.0	115.0	4.98	24.097	
500.0	500.0	470.0	500.0	2.5	2.6	-90.36	-0.8	-120.0	120.0	114.4	5.59	21.453	
600.0	600.0	570.0	600.0	2.8	2.9	-90.36	-0.8	-120.0	120.0	113.8	6.14	19.526	
700.0	700.0	670.0	700.0	3.1	3.2	-90.36	-0.8	-120.0	120.0	113.3	6.65	18.039	
800.0	800.0	770.0	800.0	3.3	3.4	-90.36	-0.8	-120.0	120.0	112.9	7.12	16.844	
900.0	900.0	870.0	900.0	3.6	3.6	-90.36	-0.8	-120.0	120.0	112.4	7.57	15.855	
1,000.0	1,000.0	970.0	1,000.0	3.8	3.8	-90.36	-0.8	-120.0	120.0	112.0	7.99	15.019	
1,100.0	1,100.0	1,070.0	1,100.0	4.0	4.0	-90.36	-0.8	-120.0	120.0	111.6	8.39	14.299	
1,200.0	1,200.0	1,170.0	1,200.0	4.2	4.2	-90.36	-0.8	-120.0	120.0	111.2	8.78	13.670	
1,300.0	1,300.0	1,270.0	1,300.0	4.4	4.4	-90.36	-0.8	-120.0	120.0	110.8	9.15	13.115	
1,400.0	1,400.0	1,370.0	1,400.0	4.5	4.6	-90.36	-0.8	-120.0	120.0	110.5	9.51	12.620	
1,500.0	1,500.0	1,470.0	1,500.0	4.7	4.8	-90.36	-0.8	-120.0	120.0	110.1	9.86	12.174 CC, ES	
1,600.0	1,600.0	1,571.1	1,601.1	5.0	5.0	-171.88	0.1	-119.7	121.4	111.1	10.30	11.792	
1,700.0	1,699.8	1,672.4	1,702.3	5.3	5.3	-170.36	4.1	-118.1	125.1	114.4	10.73	11.663 SF	
1,800.0	1,799.5	1,773.5	1,803.1	5.5	5.6	-167.74	11.4	-115.3	131.2	120.1	11.16	11.763	
1,900.0	1,898.7	1,873.6	1,902.6	5.8	5.8	-164.41	21.8	-111.4	140.2	128.7	11.53	12.158	
2,000.0	1,997.5	1,972.6	2,000.9	6.2	6.0	-161.62	32.7	-107.3	152.7	140.7	11.95	12.773	
2,100.0	2,095.6	2,071.2	2,098.8	6.5	6.2	-159.63	43.5	-103.1	168.7	156.3	12.41	13.594	
2,200.0	2,193.1	2,169.2	2,196.1	6.8	6.5	-158.33	54.3	-99.0	188.0	175.2	12.88	14.595	
2,282.8	2,273.1	2,249.9	2,276.3	7.1	6.7	-157.68	63.2	-95.6	206.5	193.3	13.25	15.582	
2,300.0	2,289.7	2,266.6	2,292.8	7.2	6.8	-157.62	65.0	-94.9	210.6	197.3	13.32	15.811	
2,400.0	2,385.9	2,363.8	2,389.3	7.5	7.1	-157.27	75.7	-90.9	234.2	220.4	13.80	16.974	
2,500.0	2,482.2	2,460.9	2,485.8	7.8	7.4	-156.99	86.4	-86.8	257.8	243.5	14.27	18.068	
2,600.0	2,578.5	2,558.1	2,582.3	8.2	7.7	-156.76	97.1	-82.7	281.4	266.7	14.76	19.071	
2,700.0	2,674.8	2,655.3	2,678.8	8.6	8.0	-156.56	107.8	-78.6	305.1	289.8	15.26	19.989	
2,800.0	2,771.1	2,752.4	2,775.3	9.0	8.3	-156.39	118.5	-74.6	328.7	312.9	15.78	20.831	
2,900.0	2,867.4	2,849.6	2,871.8	9.4	8.7	-156.24	129.2	-70.5	352.3	336.0	16.31	21.604	
3,000.0	2,963.7	2,946.8	2,968.3	9.8	9.0	-156.11	139.9	-66.4	376.0	359.1	16.85	22.313	
3,100.0	3,060.0	3,043.9	3,064.7	10.2	9.3	-156.00	150.6	-62.4	399.6	382.2	17.40	22.965	
3,200.0	3,156.3	3,141.1	3,161.2	10.6	9.7	-155.90	161.3	-58.3	423.2	405.3	17.96	23.566	
3,300.0	3,252.6	3,238.2	3,257.7	11.0	10.1	-155.81	172.0	-54.2	446.9	428.4	18.53	24.120	
3,400.0	3,348.8	3,335.4	3,354.2	11.5	10.4	-155.73	182.7	-50.1	470.5	451.4	19.08	24.656	
3,500.0	3,445.1	3,431.8	3,450.0	11.9	10.7	-155.75	192.5	-46.4	494.2	474.6	19.64	25.159	
3,600.0	3,541.4	3,528.0	3,545.8	12.3	11.1	-155.95	200.9	-43.2	518.1	497.9	20.24	25.596	
3,700.0	3,637.7	3,624.1	3,641.6	12.8	11.4	-156.31	207.7	-40.6	542.2	521.3	20.85	25.998	
3,800.0	3,734.0	3,720.0	3,737.3	13.2	11.7	-156.81	213.0	-38.6	566.5	545.0	21.48	26.372	
3,900.0	3,830.3	3,815.6	3,832.8	13.7	12.0	-157.42	216.9	-37.1	591.0	568.8	22.12	26.720	
4,000.0	3,926.6	3,910.9	3,928.1	14.2	12.3	-158.13	219.2	-36.2	615.7	593.0	22.76	27.048	
4,100.0	4,022.9	4,005.8	4,023.0	14.6	12.5	-158.93	220.0	-35.9	640.8	617.4	23.42	27.364	
4,200.0	4,119.2	4,101.9	4,119.2	15.1	12.6	-159.76	220.0	-35.9	666.2	642.1	24.10	27.647	
4,300.0	4,215.4	4,198.2	4,215.4	15.6	12.7	-160.53	220.0	-35.9	691.7	666.9	24.77	27.926	
4,400.0	4,311.7	4,294.5	4,311.7	16.0	12.7	-161.24	220.0	-35.9	717.3	691.9	25.44	28.192	
4,500.0	4,408.0	4,390.8	4,408.0	16.5	12.8	-161.91	220.0	-35.9	743.0	716.9	26.12	28.446	
4,600.0	4,504.3	4,487.1	4,504.3	17.0	12.9	-162.53	220.0	-35.9	768.8	742.0	26.80	28.689	
4,700.0	4,600.6	4,583.4	4,600.6	17.4	13.0	-163.12	220.0	-35.9	794.6	767.2	27.48	28.922	
4,800.0	4,696.9	4,679.7	4,696.9	17.9	13.0	-163.66	220.0	-35.9	820.6	792.4	28.16	29.144	
4,900.0	4,793.2	4,776.0	4,793.2	18.4	13.1	-164.17	220.0	-35.9	846.6	817.8	28.84	29.358	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: LIL JOHN FEDERAL PROJECT - _LIL JOHN FED COM 706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 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
5,000.0	4,889.5	4,872.3	4,889.5	18.9	13.2	-164.66	220.0	-35.9	872.7	843.1	29.52	29.562	
5,100.0	4,985.8	4,968.5	4,985.8	19.4	13.3	-165.11	220.0	-35.9	898.8	868.6	30.20	29.758	
5,200.0	5,082.1	5,064.8	5,082.1	19.8	13.3	-165.54	220.0	-35.9	924.9	894.1	30.89	29.946	
5,300.0	5,178.3	5,161.1	5,178.3	20.3	13.4	-165.94	220.0	-35.9	951.2	919.6	31.57	30.127	
5,400.0	5,274.6	5,257.4	5,274.6	20.8	13.5	-166.33	220.0	-35.9	977.4	945.2	32.26	30.300	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Matador - Night King Federal 121H - Night King Federal 121H - Original Hole - Plan #8

Offset Site Error: 0.0 usft

Survey Program: 0-MWD - OWSG

Offset Well Error: 0.0 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
6,200.0	6,044.9	6,034.3	6,009.3	24.7	22.2	20.83	-40.2	2,113.4	984.4	939.2	45.24	21.760	
6,300.0	6,141.2	6,150.5	6,125.5	25.2	22.6	21.47	-40.2	2,116.6	961.7	915.8	45.96	20.927	
6,400.0	6,237.5	6,262.6	6,237.5	25.7	23.0	22.16	-40.1	2,117.4	937.2	890.5	46.65	20.092	
6,500.0	6,333.8	6,358.9	6,333.8	26.2	23.3	22.79	-40.1	2,117.4	912.1	864.7	47.37	19.254	
6,600.0	6,430.1	6,455.1	6,430.1	26.7	23.6	23.46	-40.1	2,117.4	887.2	839.1	48.09	18.446	
6,700.0	6,526.4	6,551.4	6,526.4	27.2	23.9	24.17	-40.1	2,117.4	862.3	813.5	48.81	17.668	
6,800.0	6,622.7	6,647.7	6,622.7	27.7	24.3	24.93	-40.1	2,117.4	837.6	788.1	49.51	16.918	
6,900.0	6,719.0	6,744.0	6,719.0	28.2	24.6	25.72	-40.1	2,117.4	813.1	762.9	50.21	16.195	
7,000.0	6,815.3	6,840.3	6,815.3	28.6	24.9	26.57	-40.1	2,117.4	788.7	737.8	50.89	15.498	
7,100.0	6,911.6	6,936.6	6,911.6	29.1	25.2	27.46	-40.1	2,117.4	764.4	712.9	51.56	14.827	
7,143.8	6,953.7	6,978.8	6,953.7	29.4	25.4	27.87	-40.1	2,117.4	753.9	702.0	51.84	14.543	
7,200.0	7,007.9	7,033.0	7,007.9	29.6	25.6	28.34	-40.1	2,117.4	740.6	688.4	52.20	14.190	
7,300.0	7,104.7	7,129.7	7,104.7	30.1	25.9	29.18	-40.1	2,117.4	718.4	665.5	52.84	13.597	
7,400.0	7,201.9	7,226.9	7,201.9	30.6	26.2	30.01	-40.1	2,117.4	697.8	644.3	53.46	13.052	
7,500.0	7,299.5	7,324.5	7,299.5	31.1	26.6	30.83	-40.1	2,117.4	678.9	624.8	54.07	12.555	
7,600.0	7,397.4	7,422.5	7,397.4	31.5	26.9	31.62	-40.1	2,117.4	661.6	606.9	54.68	12.101	
7,700.0	7,495.7	7,520.8	7,495.7	32.0	27.2	32.39	-40.1	2,117.4	645.9	590.7	55.26	11.688	
7,800.0	7,594.3	7,619.4	7,594.3	32.4	27.6	33.11	-40.1	2,117.4	631.9	576.0	55.84	11.315	
7,900.0	7,693.2	7,718.2	7,693.2	32.9	27.9	33.80	-40.1	2,117.4	619.3	562.9	56.41	10.978	
8,000.0	7,792.3	7,817.4	7,792.3	33.3	28.2	34.42	-40.1	2,117.4	608.4	551.4	56.98	10.677	
8,100.0	7,891.7	7,916.7	7,891.7	33.7	28.6	34.99	-40.1	2,117.4	598.9	541.4	57.54	10.409	
8,200.0	7,991.2	8,016.2	7,991.2	34.1	28.9	35.48	-40.1	2,117.4	590.9	532.8	58.09	10.173	
8,300.0	8,090.9	8,115.9	8,090.9	34.5	29.3	35.90	-40.1	2,117.4	584.4	525.8	58.64	9.966	
8,400.0	8,190.7	8,215.7	8,190.7	34.9	29.6	36.23	-40.1	2,117.4	579.4	520.2	59.19	9.788	
8,500.0	8,290.6	8,315.6	8,290.6	35.2	29.9	36.48	-40.1	2,117.4	575.7	516.0	59.73	9.638	
8,600.0	8,390.5	8,415.6	8,390.5	35.5	30.3	36.63	-40.1	2,117.4	573.5	513.2	60.27	9.515	
8,700.0	8,490.5	8,515.5	8,490.5	35.6	30.6	36.69	-40.1	2,117.4	572.6	511.9	60.72	9.430	
8,709.5	8,500.0	8,525.0	8,500.0	35.6	30.7	118.48	-40.1	2,117.4	572.6	511.9	60.77	9.423	
8,800.0	8,590.5	8,615.6	8,590.5	35.7	31.0	118.48	-40.1	2,117.4	572.6	511.5	61.10	9.372	
8,900.0	8,690.5	8,715.6	8,690.5	35.7	31.3	118.48	-40.1	2,117.4	572.6	511.2	61.47	9.315	
9,000.0	8,790.5	8,815.6	8,790.5	35.7	31.7	118.48	-40.1	2,117.4	572.6	510.8	61.85	9.259	
9,100.0	8,890.5	8,915.6	8,890.5	35.7	32.0	118.48	-40.1	2,117.4	572.6	510.4	62.22	9.203	
9,200.0	8,990.5	9,015.6	8,990.5	35.8	32.4	118.48	-40.1	2,117.4	572.6	510.0	62.60	9.147	
9,300.0	9,090.5	9,115.6	9,090.5	35.8	32.7	118.48	-40.1	2,117.4	572.6	509.6	62.98	9.092	
9,400.0	9,190.5	9,215.6	9,190.5	35.8	33.1	118.48	-40.1	2,117.4	572.6	509.3	63.36	9.037	
9,500.0	9,290.5	9,315.6	9,290.5	35.8	33.4	118.48	-40.1	2,117.4	572.6	508.9	63.75	8.983	
9,600.0	9,390.5	9,415.6	9,390.5	35.9	33.7	118.48	-40.1	2,117.4	572.6	508.5	64.13	8.929	
9,700.0	9,490.5	9,515.6	9,490.5	35.9	34.1	118.48	-40.1	2,117.4	572.6	508.1	64.52	8.875	
9,800.0	9,590.5	9,615.6	9,590.5	35.9	34.4	118.48	-40.1	2,117.4	572.6	507.7	64.91	8.822	
9,900.0	9,690.5	9,715.6	9,690.5	36.0	34.8	118.48	-40.1	2,117.4	572.6	507.3	65.30	8.769	
10,000.0	9,790.5	9,815.6	9,790.5	36.0	35.1	118.48	-40.1	2,117.4	572.6	506.9	65.69	8.717	
10,100.0	9,890.5	9,915.6	9,890.5	36.0	35.5	118.48	-40.1	2,117.4	572.6	506.5	66.09	8.665	
10,200.0	9,990.5	10,015.6	9,990.5	36.0	35.8	118.48	-40.1	2,117.4	572.6	506.1	66.48	8.613	
10,300.0	10,090.5	10,115.6	10,090.5	36.1	36.2	118.48	-40.1	2,117.4	572.6	505.7	66.88	8.562	
10,400.0	10,190.5	10,215.6	10,190.5	36.1	36.5	118.48	-40.1	2,117.4	572.6	505.3	67.28	8.511	
10,500.0	10,290.5	10,315.6	10,290.5	36.1	36.9	118.48	-40.1	2,117.4	572.6	504.9	67.68	8.461	
10,600.0	10,390.5	10,415.6	10,390.5	36.2	37.2	118.48	-40.1	2,117.4	572.6	504.5	68.08	8.411	
10,700.0	10,490.5	10,583.4	10,556.8	36.2	37.8	116.89	-22.3	2,117.2	568.1	500.1	68.00	8.354	
10,800.0	10,590.5	10,747.1	10,707.6	36.2	38.3	110.98	40.2	2,116.7	550.9	482.6	68.31	8.065	
10,900.0	10,690.5	10,870.0	10,805.7	36.2	38.6	103.36	113.7	2,116.0	528.7	458.9	69.73	7.582	
11,000.0	10,790.5	10,958.0	10,865.3	36.3	38.8	96.20	178.4	2,115.5	509.9	438.0	71.92	7.090	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: Matador - Night King Federal 121H - Night King Federal 121H - Original Hole - Plan #8

Offset Site Error: 0.0 usft

Survey Program: 0-MWD - OWSG

Rule Assigned:

Offset Well Error: 0.0 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
11,100.0	10,890.5	11,021.4	10,901.6	36.3	39.0	90.29	230.4	2,115.0	501.1	427.1	73.99	6.772	
11,115.4	10,905.9	11,029.6	10,905.9	36.3	39.0	89.50	237.3	2,114.9	500.9	426.7	74.24	6.747	CC, ES
11,200.0	10,990.5	11,068.2	10,924.7	36.3	39.1	85.64	271.1	2,114.7	506.4	431.3	75.11	6.742	SF
11,300.0	11,090.5	11,100.0	10,938.4	36.4	39.2	82.40	299.7	2,114.4	527.2	452.4	74.86	7.043	
11,400.0	11,190.5	11,131.5	10,950.4	36.4	39.3	79.15	328.8	2,114.1	563.0	489.5	73.53	7.657	
11,500.0	11,290.5	11,150.0	10,956.7	36.4	39.3	77.23	346.2	2,114.0	611.7	540.3	71.43	8.564	
11,600.0	11,390.5	11,171.5	10,963.4	36.4	39.4	75.02	366.7	2,113.8	670.9	601.7	69.19	9.696	
11,700.0	11,490.5	11,186.4	10,967.5	36.5	39.5	73.49	381.0	2,113.7	738.3	671.3	67.00	11.021	
11,800.0	11,590.5	11,200.0	10,970.9	36.5	39.5	72.12	394.1	2,113.6	812.0	747.0	65.04	12.485	
11,900.0	11,690.5	11,200.0	10,970.9	36.5	39.5	72.12	394.1	2,113.6	890.7	827.4	63.26	14.079	
12,000.0	11,790.5	11,218.8	10,975.2	36.6	39.6	70.23	412.4	2,113.4	972.8	910.8	61.97	15.698	

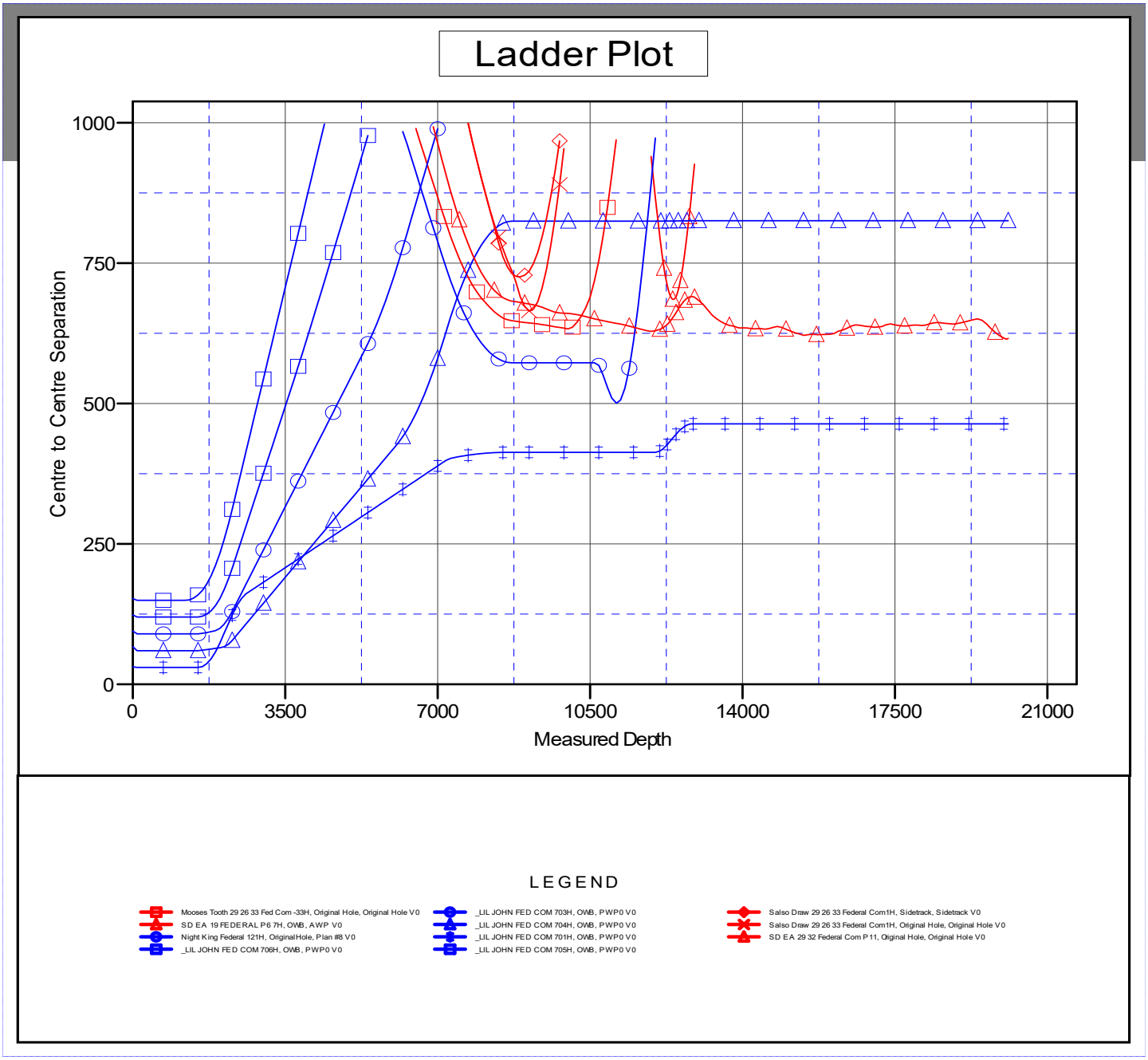
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3210.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _LIL JOHN FED COM 702H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°



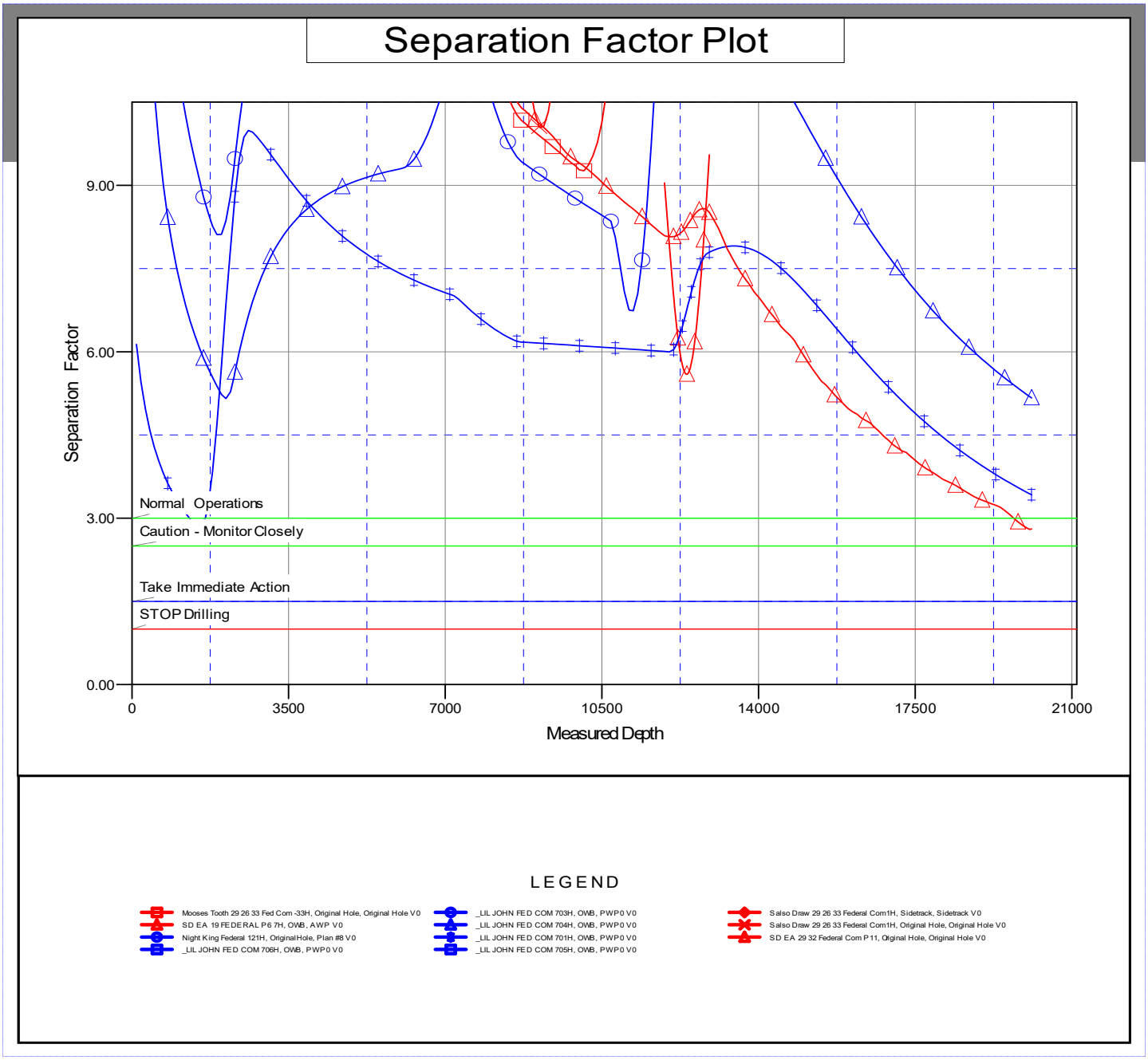
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3210.0usft
Reference Site:	LIL JOHN FEDERAL PROJECT	**MD Reference:**	KB @ 3210.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3210.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _LIL JOHN FED COM 702H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA
LIL JOHN FEDERAL PROJECT
_LIL JOHN FED COM 702H

OWB

Plan: PWP0

Standard Planning Report

04 February, 2025

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3210.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3210.0usft
Site:	LIL JOHN FEDERAL PROJECT	**North Reference:**	Grid
Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/21/2023	6.31	59.54	47,256.98746244

Design PWP0

Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	167.40

Plan Survey Tool Program **Date** 2/4/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,103.3	PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,282.8	15.66	81.79	2,273.1	15.2	105.2	2.00	2.00	0.00	81.79	
7,143.8	15.66	81.79	6,953.7	202.5	1,403.6	0.00	0.00	0.00	0.00	
8,709.5	0.00	0.00	8,500.0	232.9	1,614.0	1.00	-1.00	0.00	180.00	
12,102.0	0.00	0.00	11,892.5	232.9	1,614.0	0.00	0.00	0.00	0.00	
12,852.0	90.00	179.54	12,370.0	-244.5	1,617.8	12.00	12.00	23.94	179.54	
20,103.3	90.00	179.54	12,370.0	-7,495.6	1,675.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3210.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3210.0usft
Site:	LIL JOHN FEDERAL PROJECT	**North Reference:**	Grid
Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	2.00	81.79	1,600.0	0.2	1.7	0.1	2.00	2.00	0.00
1,700.0	4.00	81.79	1,699.8	1.0	6.9	0.5	2.00	2.00	0.00
1,800.0	6.00	81.79	1,799.5	2.2	15.5	1.2	2.00	2.00	0.00
1,900.0	8.00	81.79	1,898.7	4.0	27.6	2.1	2.00	2.00	0.00
2,000.0	10.00	81.79	1,997.5	6.2	43.1	3.3	2.00	2.00	0.00
2,100.0	12.00	81.79	2,095.6	8.9	62.0	4.8	2.00	2.00	0.00
2,200.0	14.00	81.79	2,193.1	12.2	84.2	6.5	2.00	2.00	0.00
2,282.8	15.66	81.79	2,273.1	15.2	105.2	8.1	2.00	2.00	0.00
2,300.0	15.66	81.79	2,289.7	15.8	109.8	8.5	0.00	0.00	0.00
2,400.0	15.66	81.79	2,385.9	19.7	136.5	10.6	0.00	0.00	0.00
2,500.0	15.66	81.79	2,482.2	23.6	163.2	12.6	0.00	0.00	0.00
2,600.0	15.66	81.79	2,578.5	27.4	189.9	14.7	0.00	0.00	0.00
2,700.0	15.66	81.79	2,674.8	31.3	216.6	16.7	0.00	0.00	0.00
2,800.0	15.66	81.79	2,771.1	35.1	243.3	18.8	0.00	0.00	0.00
2,900.0	15.66	81.79	2,867.4	39.0	270.1	20.9	0.00	0.00	0.00
3,000.0	15.66	81.79	2,963.7	42.8	296.8	22.9	0.00	0.00	0.00
3,100.0	15.66	81.79	3,060.0	46.7	323.5	25.0	0.00	0.00	0.00
3,200.0	15.66	81.79	3,156.3	50.5	350.2	27.1	0.00	0.00	0.00
3,300.0	15.66	81.79	3,252.6	54.4	376.9	29.1	0.00	0.00	0.00
3,400.0	15.66	81.79	3,348.8	58.2	403.6	31.2	0.00	0.00	0.00
3,500.0	15.66	81.79	3,445.1	62.1	430.3	33.3	0.00	0.00	0.00
3,600.0	15.66	81.79	3,541.4	65.9	457.0	35.3	0.00	0.00	0.00
3,700.0	15.66	81.79	3,637.7	69.8	483.7	37.4	0.00	0.00	0.00
3,800.0	15.66	81.79	3,734.0	73.7	510.5	39.5	0.00	0.00	0.00
3,900.0	15.66	81.79	3,830.3	77.5	537.2	41.5	0.00	0.00	0.00
4,000.0	15.66	81.79	3,926.6	81.4	563.9	43.6	0.00	0.00	0.00
4,100.0	15.66	81.79	4,022.9	85.2	590.6	45.7	0.00	0.00	0.00
4,200.0	15.66	81.79	4,119.2	89.1	617.3	47.7	0.00	0.00	0.00
4,300.0	15.66	81.79	4,215.4	92.9	644.0	49.8	0.00	0.00	0.00
4,400.0	15.66	81.79	4,311.7	96.8	670.7	51.9	0.00	0.00	0.00
4,500.0	15.66	81.79	4,408.0	100.6	697.4	53.9	0.00	0.00	0.00
4,600.0	15.66	81.79	4,504.3	104.5	724.1	56.0	0.00	0.00	0.00
4,700.0	15.66	81.79	4,600.6	108.3	750.9	58.1	0.00	0.00	0.00
4,800.0	15.66	81.79	4,696.9	112.2	777.6	60.1	0.00	0.00	0.00
4,900.0	15.66	81.79	4,793.2	116.1	804.3	62.2	0.00	0.00	0.00
5,000.0	15.66	81.79	4,889.5	119.9	831.0	64.2	0.00	0.00	0.00
5,100.0	15.66	81.79	4,985.8	123.8	857.7	66.3	0.00	0.00	0.00
5,200.0	15.66	81.79	5,082.1	127.6	884.4	68.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3210.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3210.0usft
Site:	LIL JOHN FEDERAL PROJECT	**North Reference:**	Grid
Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	15.66	81.79	5,178.3	131.5	911.1	70.4	0.00	0.00	0.00
5,400.0	15.66	81.79	5,274.6	135.3	937.8	72.5	0.00	0.00	0.00
5,500.0	15.66	81.79	5,370.9	139.2	964.5	74.6	0.00	0.00	0.00
5,600.0	15.66	81.79	5,467.2	143.0	991.2	76.6	0.00	0.00	0.00
5,700.0	15.66	81.79	5,563.5	146.9	1,018.0	78.7	0.00	0.00	0.00
5,800.0	15.66	81.79	5,659.8	150.7	1,044.7	80.8	0.00	0.00	0.00
5,900.0	15.66	81.79	5,756.1	154.6	1,071.4	82.8	0.00	0.00	0.00
6,000.0	15.66	81.79	5,852.4	158.5	1,098.1	84.9	0.00	0.00	0.00
6,100.0	15.66	81.79	5,948.7	162.3	1,124.8	87.0	0.00	0.00	0.00
6,200.0	15.66	81.79	6,044.9	166.2	1,151.5	89.0	0.00	0.00	0.00
6,300.0	15.66	81.79	6,141.2	170.0	1,178.2	91.1	0.00	0.00	0.00
6,400.0	15.66	81.79	6,237.5	173.9	1,204.9	93.2	0.00	0.00	0.00
6,500.0	15.66	81.79	6,333.8	177.7	1,231.6	95.2	0.00	0.00	0.00
6,600.0	15.66	81.79	6,430.1	181.6	1,258.4	97.3	0.00	0.00	0.00
6,700.0	15.66	81.79	6,526.4	185.4	1,285.1	99.4	0.00	0.00	0.00
6,800.0	15.66	81.79	6,622.7	189.3	1,311.8	101.4	0.00	0.00	0.00
6,900.0	15.66	81.79	6,719.0	193.1	1,338.5	103.5	0.00	0.00	0.00
7,000.0	15.66	81.79	6,815.3	197.0	1,365.2	105.6	0.00	0.00	0.00
7,100.0	15.66	81.79	6,911.6	200.8	1,391.9	107.6	0.00	0.00	0.00
7,143.8	15.66	81.79	6,953.7	202.5	1,403.6	108.5	0.00	0.00	0.00
7,200.0	15.09	81.79	7,007.9	204.7	1,418.4	109.7	1.00	-1.00	0.00
7,300.0	14.09	81.79	7,104.7	208.3	1,443.3	111.6	1.00	-1.00	0.00
7,400.0	13.09	81.79	7,201.9	211.6	1,466.6	113.4	1.00	-1.00	0.00
7,500.0	12.09	81.79	7,299.5	214.7	1,488.1	115.1	1.00	-1.00	0.00
7,600.0	11.09	81.79	7,397.4	217.6	1,508.0	116.6	1.00	-1.00	0.00
7,700.0	10.09	81.79	7,495.7	220.2	1,526.2	118.0	1.00	-1.00	0.00
7,800.0	9.09	81.79	7,594.3	222.6	1,542.7	119.3	1.00	-1.00	0.00
7,900.0	8.09	81.79	7,693.2	224.7	1,557.5	120.4	1.00	-1.00	0.00
8,000.0	7.09	81.79	7,792.3	226.6	1,570.6	121.4	1.00	-1.00	0.00
8,100.0	6.09	81.79	7,891.7	228.3	1,582.0	122.3	1.00	-1.00	0.00
8,200.0	5.09	81.79	7,991.2	229.7	1,591.6	123.1	1.00	-1.00	0.00
8,300.0	4.09	81.79	8,090.9	230.8	1,599.5	123.7	1.00	-1.00	0.00
8,400.0	3.09	81.79	8,190.7	231.7	1,605.8	124.2	1.00	-1.00	0.00
8,500.0	2.09	81.79	8,290.6	232.4	1,610.2	124.5	1.00	-1.00	0.00
8,600.0	1.09	81.79	8,390.5	232.8	1,613.0	124.7	1.00	-1.00	0.00
8,700.0	0.09	81.79	8,490.5	232.9	1,614.0	124.8	1.00	-1.00	0.00
8,709.5	0.00	0.00	8,500.0	232.9	1,614.0	124.8	1.00	-1.00	0.00
8,800.0	0.00	0.00	8,590.5	232.9	1,614.0	124.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,690.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,790.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,100.0	0.00	0.00	8,890.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,200.0	0.00	0.00	8,990.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,090.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,190.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,290.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,390.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,490.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,590.5	232.9	1,614.0	124.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,690.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,790.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,100.0	0.00	0.00	9,890.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,200.0	0.00	0.00	9,990.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,090.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,190.5	232.9	1,614.0	124.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3210.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3210.0usft
Site:	LIL JOHN FEDERAL PROJECT	**North Reference:**	Grid
Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,290.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,390.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,490.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,590.5	232.9	1,614.0	124.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,690.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,790.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,100.0	0.00	0.00	10,890.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,200.0	0.00	0.00	10,990.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,090.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,190.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,290.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,390.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,490.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,800.0	0.00	0.00	11,590.5	232.9	1,614.0	124.8	0.00	0.00	0.00
11,900.0	0.00	0.00	11,690.5	232.9	1,614.0	124.8	0.00	0.00	0.00
12,000.0	0.00	0.00	11,790.5	232.9	1,614.0	124.8	0.00	0.00	0.00
12,100.0	0.00	0.00	11,890.5	232.9	1,614.0	124.8	0.00	0.00	0.00
12,102.0	0.00	0.00	11,892.5	232.9	1,614.0	124.8	0.00	0.00	0.00
12,200.0	11.76	179.54	11,989.8	222.9	1,614.1	134.6	12.00	12.00	0.00
12,300.0	23.76	179.54	12,084.9	192.4	1,614.3	164.4	12.00	12.00	0.00
12,400.0	35.76	179.54	12,171.5	142.9	1,614.7	212.8	12.00	12.00	0.00
12,500.0	47.76	179.54	12,246.0	76.4	1,615.3	277.8	12.00	12.00	0.00
12,600.0	59.76	179.54	12,305.0	-4.1	1,615.9	356.5	12.00	12.00	0.00
12,700.0	71.76	179.54	12,346.0	-95.1	1,616.6	445.5	12.00	12.00	0.00
12,800.0	83.76	179.54	12,367.1	-192.7	1,617.4	540.8	12.00	12.00	0.00
12,852.0	90.00	179.54	12,370.0	-244.5	1,617.8	591.6	12.00	12.00	0.00
12,900.0	90.00	179.54	12,370.0	-292.6	1,618.2	638.5	0.00	0.00	0.00
13,000.0	90.00	179.54	12,370.0	-392.6	1,619.0	736.3	0.00	0.00	0.00
13,100.0	90.00	179.54	12,370.0	-492.6	1,619.8	834.0	0.00	0.00	0.00
13,200.0	90.00	179.54	12,370.0	-592.6	1,620.6	931.8	0.00	0.00	0.00
13,300.0	90.00	179.54	12,370.0	-692.6	1,621.4	1,029.6	0.00	0.00	0.00
13,400.0	90.00	179.54	12,370.0	-792.5	1,622.2	1,127.3	0.00	0.00	0.00
13,500.0	90.00	179.54	12,370.0	-892.5	1,623.0	1,225.1	0.00	0.00	0.00
13,600.0	90.00	179.54	12,370.0	-992.5	1,623.8	1,322.8	0.00	0.00	0.00
13,700.0	90.00	179.54	12,370.0	-1,092.5	1,624.6	1,420.6	0.00	0.00	0.00
13,800.0	90.00	179.54	12,370.0	-1,192.5	1,625.4	1,518.4	0.00	0.00	0.00
13,900.0	90.00	179.54	12,370.0	-1,292.5	1,626.1	1,616.1	0.00	0.00	0.00
14,000.0	90.00	179.54	12,370.0	-1,392.5	1,626.9	1,713.9	0.00	0.00	0.00
14,100.0	90.00	179.54	12,370.0	-1,492.5	1,627.7	1,811.7	0.00	0.00	0.00
14,200.0	90.00	179.54	12,370.0	-1,592.5	1,628.5	1,909.4	0.00	0.00	0.00
14,300.0	90.00	179.54	12,370.0	-1,692.5	1,629.3	2,007.2	0.00	0.00	0.00
14,400.0	90.00	179.54	12,370.0	-1,792.5	1,630.1	2,104.9	0.00	0.00	0.00
14,500.0	90.00	179.54	12,370.0	-1,892.5	1,630.9	2,202.7	0.00	0.00	0.00
14,600.0	90.00	179.54	12,370.0	-1,992.5	1,631.7	2,300.5	0.00	0.00	0.00
14,700.0	90.00	179.54	12,370.0	-2,092.5	1,632.5	2,398.2	0.00	0.00	0.00
14,800.0	90.00	179.54	12,370.0	-2,192.5	1,633.3	2,496.0	0.00	0.00	0.00
14,900.0	90.00	179.54	12,370.0	-2,292.5	1,634.1	2,593.8	0.00	0.00	0.00
15,000.0	90.00	179.54	12,370.0	-2,392.5	1,634.9	2,691.5	0.00	0.00	0.00
15,100.0	90.00	179.54	12,370.0	-2,492.5	1,635.7	2,789.3	0.00	0.00	0.00
15,200.0	90.00	179.54	12,370.0	-2,592.5	1,636.5	2,887.0	0.00	0.00	0.00
15,300.0	90.00	179.54	12,370.0	-2,692.5	1,637.3	2,984.8	0.00	0.00	0.00
15,400.0	90.00	179.54	12,370.0	-2,792.5	1,638.1	3,082.6	0.00	0.00	0.00
15,500.0	90.00	179.54	12,370.0	-2,892.5	1,638.9	3,180.3	0.00	0.00	0.00
15,600.0	90.00	179.54	12,370.0	-2,992.5	1,639.7	3,278.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3210.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3210.0usft
Site:	LIL JOHN FEDERAL PROJECT	**North Reference:**	Grid
Well:	_LIL JOHN FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,700.0	90.00	179.54	12,370.0	-3,092.5	1,640.4	3,375.8	0.00	0.00	0.00
15,800.0	90.00	179.54	12,370.0	-3,192.5	1,641.2	3,473.6	0.00	0.00	0.00
15,900.0	90.00	179.54	12,370.0	-3,292.5	1,642.0	3,571.4	0.00	0.00	0.00
16,000.0	90.00	179.54	12,370.0	-3,392.5	1,642.8	3,669.1	0.00	0.00	0.00
16,100.0	90.00	179.54	12,370.0	-3,492.5	1,643.6	3,766.9	0.00	0.00	0.00
16,200.0	90.00	179.54	12,370.0	-3,592.5	1,644.4	3,864.7	0.00	0.00	0.00
16,300.0	90.00	179.54	12,370.0	-3,692.5	1,645.2	3,962.4	0.00	0.00	0.00
16,400.0	90.00	179.54	12,370.0	-3,792.5	1,646.0	4,060.2	0.00	0.00	0.00
16,500.0	90.00	179.54	12,370.0	-3,892.5	1,646.8	4,157.9	0.00	0.00	0.00
16,600.0	90.00	179.54	12,370.0	-3,992.4	1,647.6	4,255.7	0.00	0.00	0.00
16,700.0	90.00	179.54	12,370.0	-4,092.4	1,648.4	4,353.5	0.00	0.00	0.00
16,800.0	90.00	179.54	12,370.0	-4,192.4	1,649.2	4,451.2	0.00	0.00	0.00
16,900.0	90.00	179.54	12,370.0	-4,292.4	1,650.0	4,549.0	0.00	0.00	0.00
17,000.0	90.00	179.54	12,370.0	-4,392.4	1,650.8	4,646.8	0.00	0.00	0.00
17,100.0	90.00	179.54	12,370.0	-4,492.4	1,651.6	4,744.5	0.00	0.00	0.00
17,200.0	90.00	179.54	12,370.0	-4,592.4	1,652.4	4,842.3	0.00	0.00	0.00
17,300.0	90.00	179.54	12,370.0	-4,692.4	1,653.2	4,940.0	0.00	0.00	0.00
17,400.0	90.00	179.54	12,370.0	-4,792.4	1,654.0	5,037.8	0.00	0.00	0.00
17,500.0	90.00	179.54	12,370.0	-4,892.4	1,654.7	5,135.6	0.00	0.00	0.00
17,600.0	90.00	179.54	12,370.0	-4,992.4	1,655.5	5,233.3	0.00	0.00	0.00
17,700.0	90.00	179.54	12,370.0	-5,092.4	1,656.3	5,331.1	0.00	0.00	0.00
17,800.0	90.00	179.54	12,370.0	-5,192.4	1,657.1	5,428.8	0.00	0.00	0.00
17,900.0	90.00	179.54	12,370.0	-5,292.4	1,657.9	5,526.6	0.00	0.00	0.00
18,000.0	90.00	179.54	12,370.0	-5,392.4	1,658.7	5,624.4	0.00	0.00	0.00
18,100.0	90.00	179.54	12,370.0	-5,492.4	1,659.5	5,722.1	0.00	0.00	0.00
18,200.0	90.00	179.54	12,370.0	-5,592.4	1,660.3	5,819.9	0.00	0.00	0.00
18,300.0	90.00	179.54	12,370.0	-5,692.4	1,661.1	5,917.7	0.00	0.00	0.00
18,400.0	90.00	179.54	12,370.0	-5,792.4	1,661.9	6,015.4	0.00	0.00	0.00
18,500.0	90.00	179.54	12,370.0	-5,892.4	1,662.7	6,113.2	0.00	0.00	0.00
18,600.0	90.00	179.54	12,370.0	-5,992.4	1,663.5	6,210.9	0.00	0.00	0.00
18,700.0	90.00	179.54	12,370.0	-6,092.4	1,664.3	6,308.7	0.00	0.00	0.00
18,800.0	90.00	179.54	12,370.0	-6,192.4	1,665.1	6,406.5	0.00	0.00	0.00
18,900.0	90.00	179.54	12,370.0	-6,292.4	1,665.9	6,504.2	0.00	0.00	0.00
19,000.0	90.00	179.54	12,370.0	-6,392.4	1,666.7	6,602.0	0.00	0.00	0.00
19,100.0	90.00	179.54	12,370.0	-6,492.4	1,667.5	6,699.8	0.00	0.00	0.00
19,200.0	90.00	179.54	12,370.0	-6,592.4	1,668.3	6,797.5	0.00	0.00	0.00
19,300.0	90.00	179.54	12,370.0	-6,692.4	1,669.1	6,895.3	0.00	0.00	0.00
19,400.0	90.00	179.54	12,370.0	-6,792.4	1,669.8	6,993.0	0.00	0.00	0.00
19,500.0	90.00	179.54	12,370.0	-6,892.4	1,670.6	7,090.8	0.00	0.00	0.00
19,600.0	90.00	179.54	12,370.0	-6,992.4	1,671.4	7,188.6	0.00	0.00	0.00
19,700.0	90.00	179.54	12,370.0	-7,092.3	1,672.2	7,286.3	0.00	0.00	0.00
19,800.0	90.00	179.54	12,370.0	-7,192.3	1,673.0	7,384.1	0.00	0.00	0.00
19,900.0	90.00	179.54	12,370.0	-7,292.3	1,673.8	7,481.9	0.00	0.00	0.00
20,000.0	90.00	179.54	12,370.0	-7,392.3	1,674.6	7,579.6	0.00	0.00	0.00
20,100.0	90.00	179.54	12,370.0	-7,492.3	1,675.4	7,677.4	0.00	0.00	0.00
20,103.3	90.00	179.54	12,370.0	-7,495.6	1,675.4	7,680.6	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _LIL JOHN FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3210.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3210.0usft
Site:	LIL JOHN FEDERAL PROJECT	**North Reference:**	Grid
Well:	_LIL JOHN FED COM 702H	**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
PBHL_LIL JOHN FEDEI	0.00	359.62	12,370.0	-7,495.4	1,675.4	364,582.82	726,203.65	32° 0' 0.912 N	103° 36' 13.098 W
- plan hits target center - Rectangle (sides W100.0 H7,672.4 D20.0)									
LTP_LIL JOHN FEDERA	0.00	0.00	12,370.0	-7,445.4	1,675.0	364,632.82	726,203.26	32° 0' 1.406 N	103° 36' 13.099 W
- plan hits target center - Point									
FTP_LIL JOHN FEDERA	0.00	0.00	12,370.0	183.1	1,614.0	372,261.31	726,142.25	32° 1' 16.901 N	103° 36' 13.209 W
- plan misses target center by 163.6usft at 12500.0usft MD (12246.0 TVD, 76.4 N, 1615.3 E) - Circle (radius 50.0)									

Casing Points

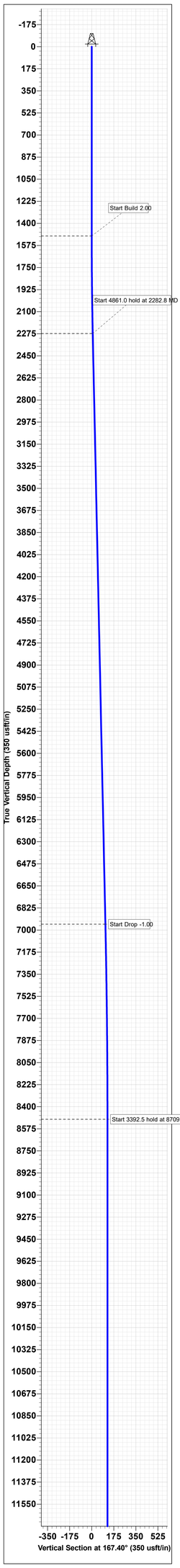
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
20,103.3	12,370.0	5-1/2" Production Casing	5-1/2	6

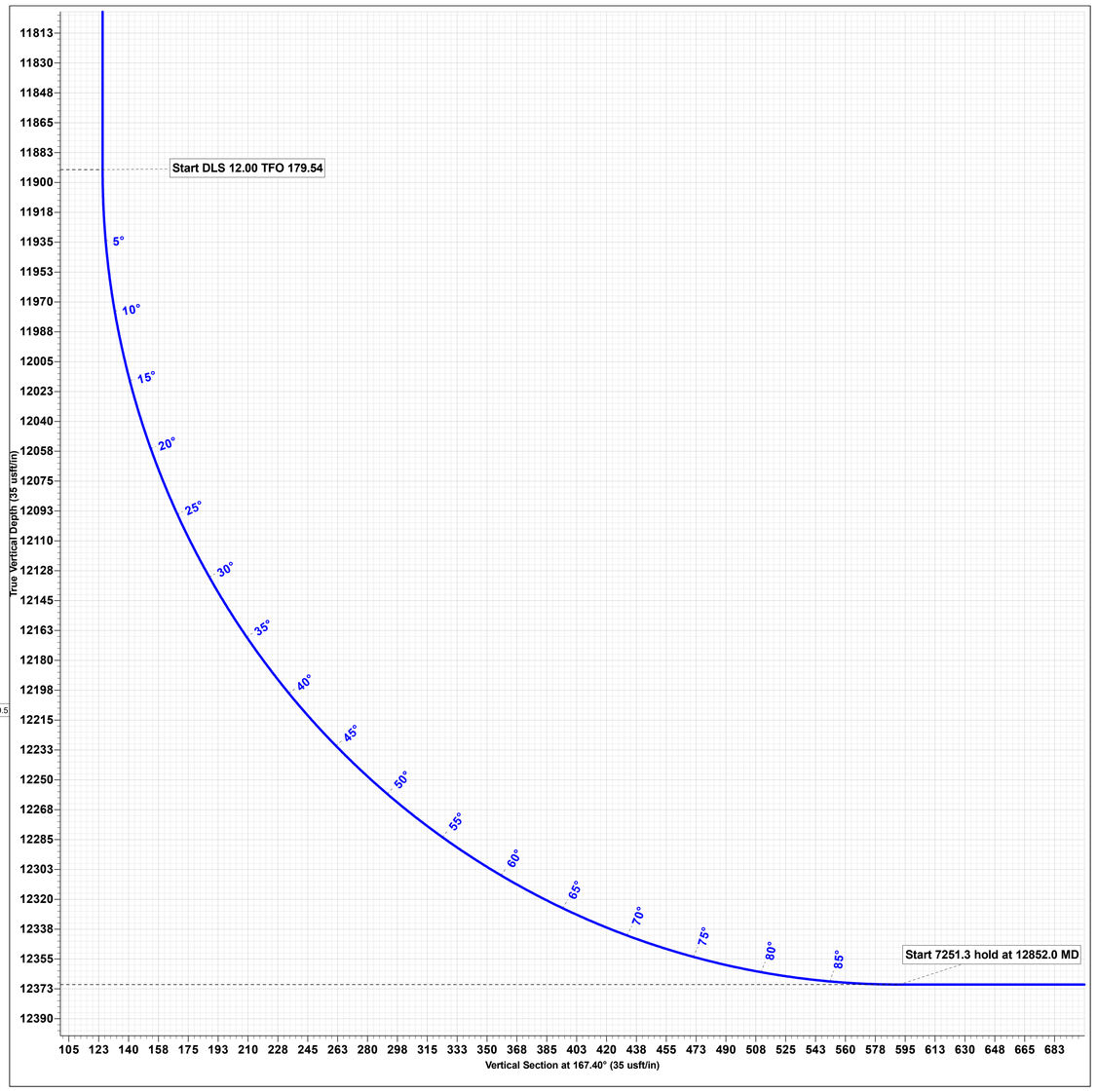
ConocoPhillips

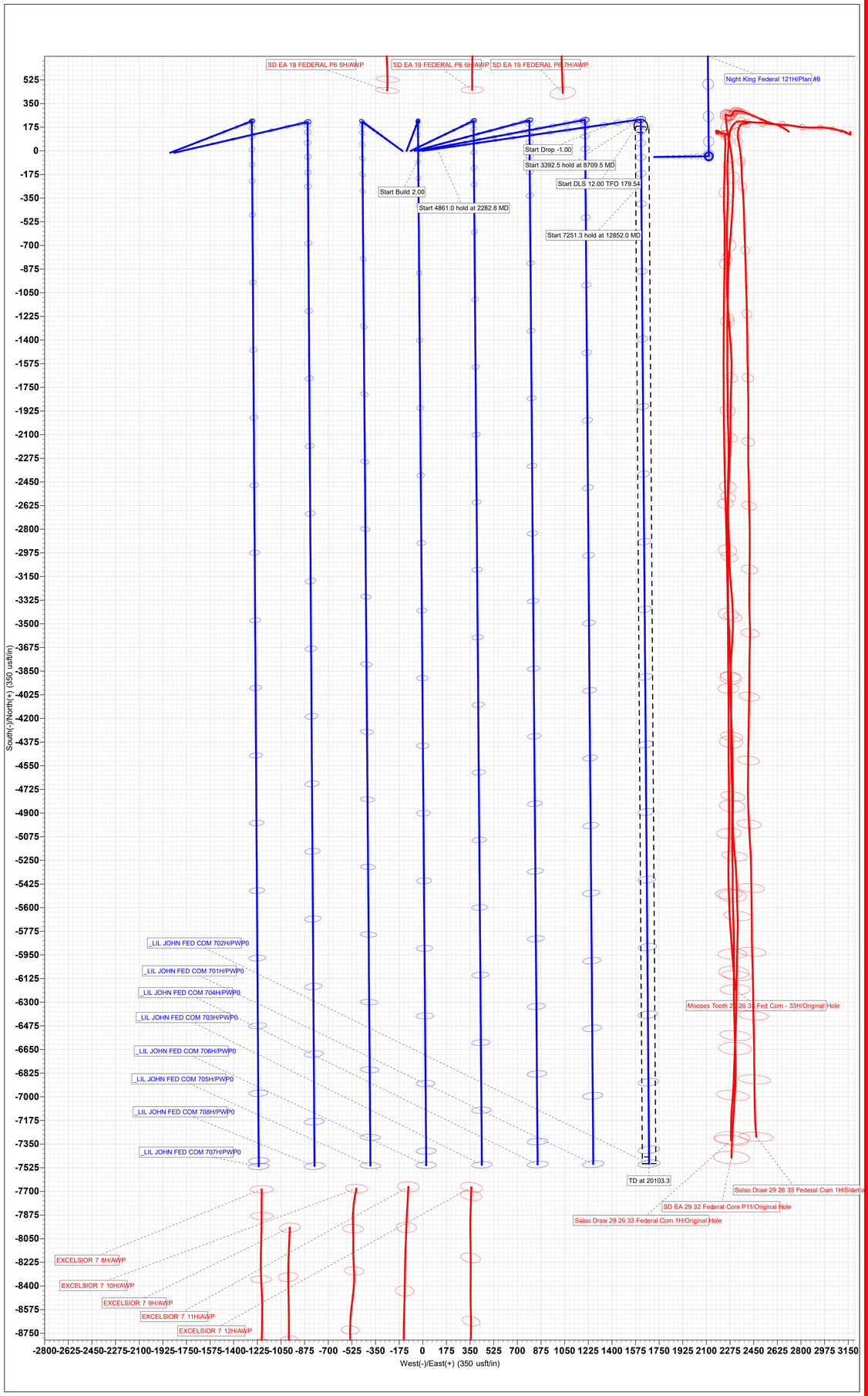
Project:	ZIA HILLS UNIT AREA
Site:	LIL JOHN FEDERAL PROJECT
Well:	_LIL JOHN FED COM 702H
Wellbore:	OWB
Design:	PWP0

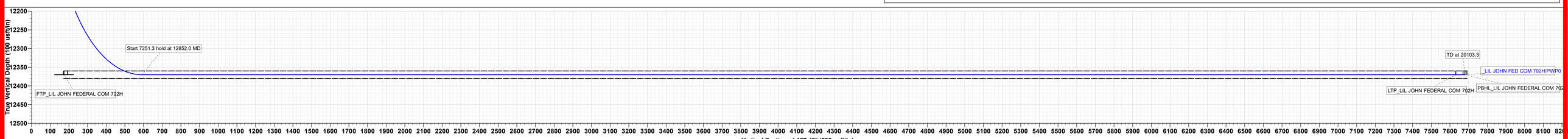
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
2282.8	15.66	81.79	2273.1	15.2	105.2	2.00	81.79	8.1
7143.8	15.66	81.79	6953.7	202.5	1403.6	0.00	0.00	108.5
8709.5	0.00	0.00	8500.0	232.9	1614.0	1.00	180.00	124.8
12102.0	0.00	0.00	11892.5	232.9	1614.0	0.00	0.00	124.8
12852.0	90.00	179.54	12370.0	-244.5	1617.8	12.00	179.54	591.6
20103.3	90.00	179.54	12370.0	-7495.6	1675.4	0.00	0.00	7680.6









COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

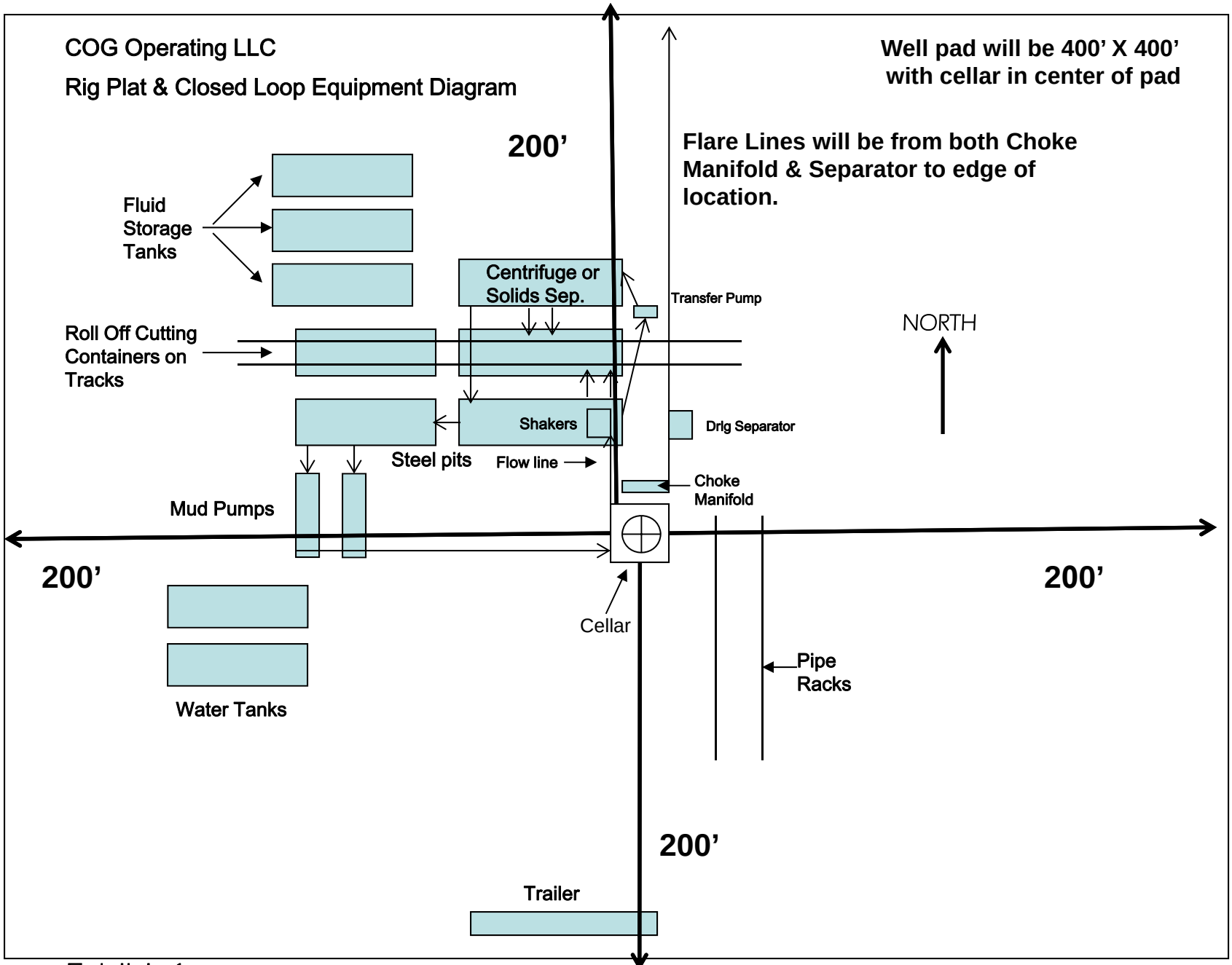


Exhibit 1

" 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: ConocoPhillips Company **OGRID: 217817** **Date: 03/25/2025**

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Lil John Federal Com 701H	30-025-	B-30-26S-33E	270 FNL & 2060 FEL	± 765	± 2001	± 1760
Lil John Federal Com 702H	30-025-	B-30-26S-33E	270 FNL & 2030 FEL	± 765	± 2001	± 1760
Lil John Federal Com 703H	30-025-	B-30-26S-33E	270 FNL & 2120 FEL	± 765	± 2001	± 1760
Lil John Federal Com 704H	30-025-	B-30-26S-33E	270 FNL & 2090 FEL	± 765	± 2001	± 1760
Lil John Federal Com 705H	30-025-	B-30-26S-33E	270 FNL & 2180 FEL	± 765	± 2001	± 1760
Lil John Federal Com 706H	30-025-	B-30-26S-33E	270 FNL & 2150 FEL	± 765	± 2001	± 1760

IV. Central Delivery Point Name: Lil John Federal Com CTB NENW 920' FNL & 1348' FWL 30-26S-33E [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
Lil John Federal Com	Pending	± 5/1/2026	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H						

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: Stan Wagner
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 03/25/2025
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.

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

Waste Minimization Plan

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

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

a. See attached Anticipated Production & Decline Curve

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

a. See attached Anticipated Production & Decline Curve

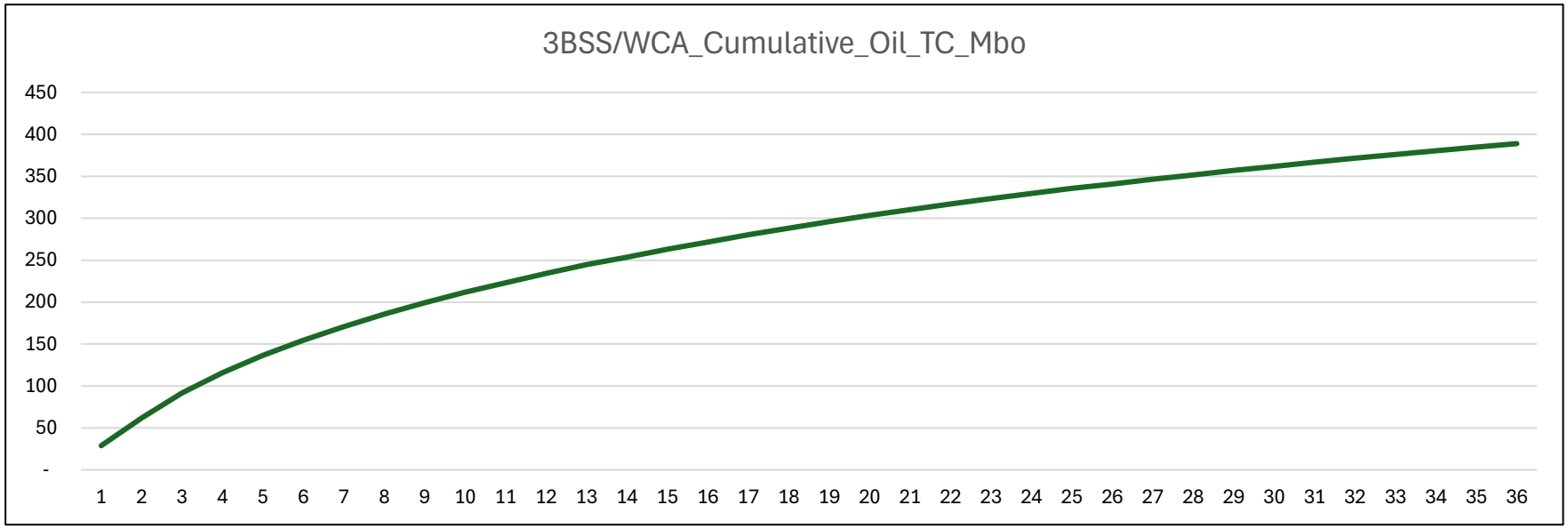
(3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

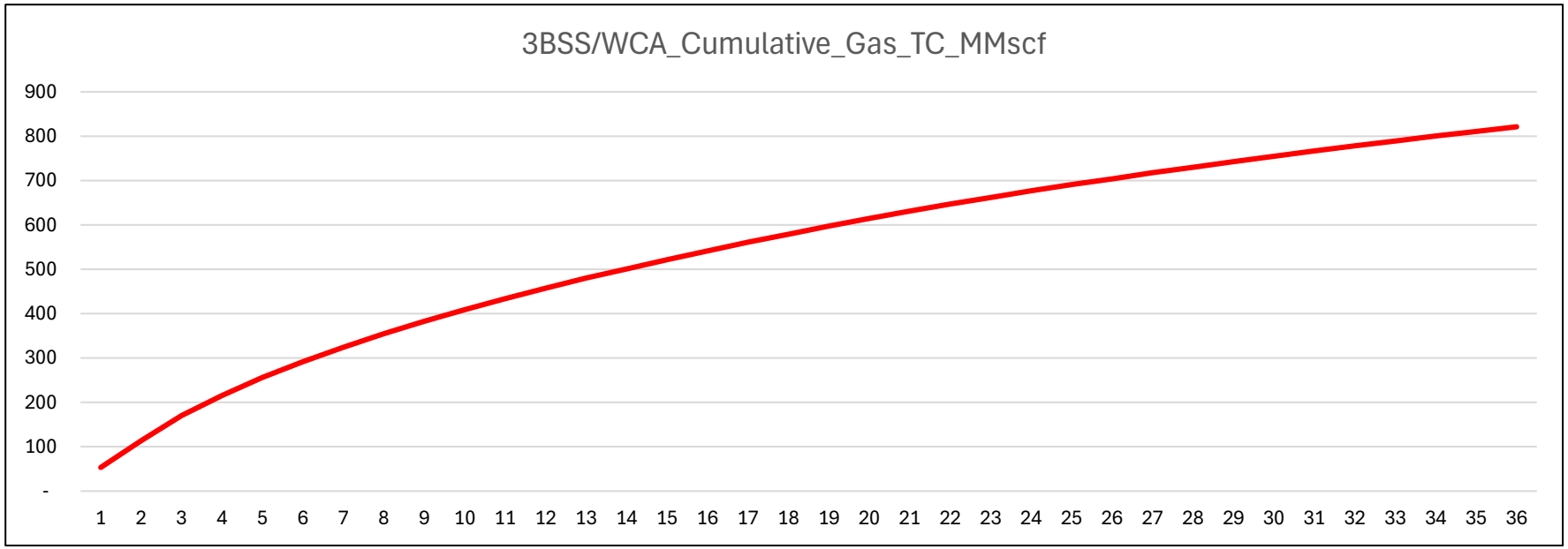
a. See attached NMOCD – Natural Gas Management Plan

(4) 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.

a. 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





PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	LIL JOHN FED COM 702H
LOCATION:	Section 30, T.26 S., R.33 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	(•) Yes	( ) No	
Potash	(•) None	( ) Secretary	( ) R-111-P
Cave/Karst Potential	( ) Low	(•) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Wellhead Variance	( ) Diverter		
Other	[ ] 4 String	[ ] Capitan Reef	[ ] WIPP
Other	[x] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[ ] Contingency Cement Squeeze	[ ] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[x] Break Testing	[ ] Offline Cementing	[x] Casing Clearance

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

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **975 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    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. (This is to include the 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.

2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** 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 cave/karst or potash.**
- **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.**

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **975 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

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. (This is to include the 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. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **9-5/8** 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 cave/karst or potash.**

   ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

6. **Keep casing full during run for collapse safety factor**. The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:

   - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

7. The minimum required fill of cement behind the **5-1/2** inch production casing is:

   - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
   - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. 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).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. 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 3500 (70% Working Pressure) 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 OOGO2.III.A.2.i must be followed.

D. 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 Onshore Order 1 and 2.
- 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.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)
BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 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)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- 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.
- 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).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

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)

☒ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

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 has 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 well.

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 be operational at all times 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 dog house 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

1. 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.
2. 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.

3. 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.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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.
7. If hardband 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.
8. 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. (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 hour 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 as a result 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 6/10/2025

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: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 504107
	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: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 504107
	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.	9/9/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/9/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	10/1/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	10/1/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	10/1/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	10/1/2025