

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

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		5. Lease Serial No. NMNM0138834 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. ROCK JELLY FEDERAL COM 710H 9. API Well No. 30-015-53477
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory /PURPLE SAGE (WOLFCAMP) GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 3/T26S/R29E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 3 / 395 FNL / 1530 FWL / LAT 32.07788 / LONG -103.975765 At proposed prod. zone SESW / 200 FSL / 2010 FWL / LAT 32.035643 / LONG -103.97416		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 12 miles 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 1920.0		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 420 feet 19. Proposed Depth 10023 feet / 25551 feet 20. BLM/BIA Bond No. in file FED:
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2978 feet 22. Approximate date work will start* 07/01/2022 23. Estimated duration 20 days		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 (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 02/21/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 02/21/2023

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.



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: LOT 3 / 395 FNL / 1530 FWL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.07788 / LONG: -103.975765 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 1319 FSL / 2010 FWL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.056956 / LONG: -103.97419 (TVD: 10065 feet, MD: 16420 feet)

PPP: NENW / 1 FNL / 2010 FWL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.064293 / LONG: -103.974201 (TVD: 10077 feet, MD: 13780 feet)

PPP: SENW / 661 FNL / 2010 FWL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.075254 / LONG: -103.974216 (TVD: 10092 feet, MD: 10480 feet)

PPP: LOT 3 / 330 FNL / 2010 FWL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.07806 / LONG: -103.97422 (TVD: 10016 feet, MD: 10149 feet)

BHL: SESW / 200 FSL / 2010 FWL / TWSP: 26S / RANGE: 29E / SECTION: 15 / LAT: 32.035643 / LONG: -103.97416 (TVD: 10023 feet, MD: 25551 feet)

BLM Point of Contact

Name: Gavin Mickwee

Title: Land Law Examiner

Phone: (575) 234-5972

Email: gmickwee@blm.gov

CONFIDENTIAL

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-53477	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329756	Property Name ROCK JELLY FEDERAL COM	Well Number 710H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2978.4'

Surface Location

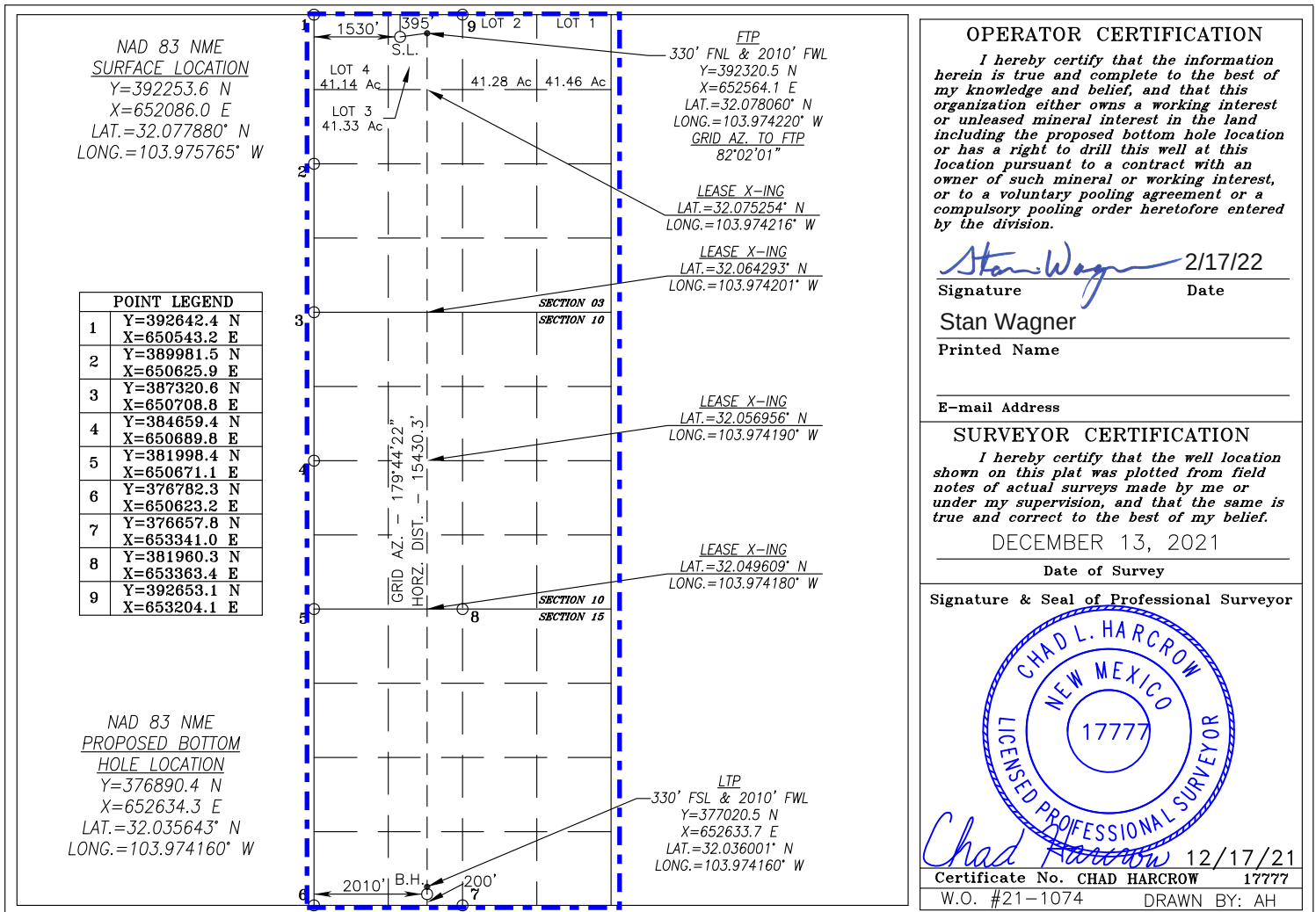
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	3	26-S	29-E		395	NORTH	1530	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	26-S	29-E		200	SOUTH	2010	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
1920			

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



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: COG Operating LLC

OGRID: 239137

Date: 02/02/2022

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
Rock Jelly Fed Com 710H	30-015-	3-3-26S-29E	395 FNL & 1530 FWL	± 1260	± 5580	± 5000
Rock Jelly Fed Com 711H	30-015-	3-3-26S-29E	395 FNL & 1500 FWL	± 1260	± 5580	± 5000
Rock Jelly Fed Com 712H	30-015-	3-3-26S-29E	395 FNL & 1470 FEL	± 1260	± 5580	± 5000

IV. Central Delivery Point Name: Rock Jelly Fed Com West CTB 790 FNL & 1495 FWL 3-26S-29E [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
Rock Jelly Fed Com	Pending	± 4/1/2023	± 25 days from spud	TBD	TBD	TBD
710H, 711H, 712H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

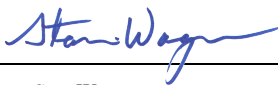
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 02/02/2022
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

COG Operating, LLC - Rock Jelly Federal Com 710H

1. Geologic Formations

TVD of target	10,093' EOL	Pilot hole depth	NA
MD at TD:	25,551'	Deepest expected fresh water:	78'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	533	Water	
Top of Salt	678	Salt	
Base of Salt	2801	Salt	
Lamar	3027	Salt Water	
Bell Canyon	3069	Salt Water	
Cherry Canyon	3926	Oil/Gas	
Brushy Canyon	5216	Oil/Gas	
Bone Spring Lime	6783	Oil/Gas	
1st Bone Spring Sand	7721	Oil/Gas	
2nd Bone Spring Sand	8323	Oil/Gas	
3rd Bone Spring Sand	9618	Oil/Gas	
Wolfcamp A	9983	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	650	10.75"	45.5	N80	BTC	8.30	2.02	35.16	37.09
9.875"	0	7000	7.625"	29.7	HCL80	BTC	1.90	1.32	3.49	3.53
8.750"	7000	9450	7.625"	29.7	P110 RY	W 513	1.66	1.75	3.35	2.01
6.75"	0	8950	5.5"	23	P110 RY	TXP BTC	2.50	2.95	3.54	3.52
6.75"	8950	25,551	5.5"	23	P110 RY	W 441	2.47	2.97	3.57	3.24
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon 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.

COG Operating, LLC - Rock Jelly Federal Com 710H

	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 3 rd 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 2 nd 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?	

COG Operating, LLC - Rock Jelly Federal Com 710H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	310	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	680	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	415	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1565	14.4	1.24	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%
1 st Intermediate	0'	50%
Production	8,950'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Rock Jelly Federal Com 710H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
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 Onshore Order 2 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 Onshore Oil and Gas Order #2 III.B.1.i.
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 Onshore Order #2 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.

COG Operating, LLC - Rock Jelly Federal Com 710H

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 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	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
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6. Logging and Testing Procedures

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

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

COG Operating, LLC - Rock Jelly Federal Com 710H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6565 psi at 10093' TVD
Abnormal Temperature	NO 160 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 Onshore Oil and Gas Order #6. 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	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

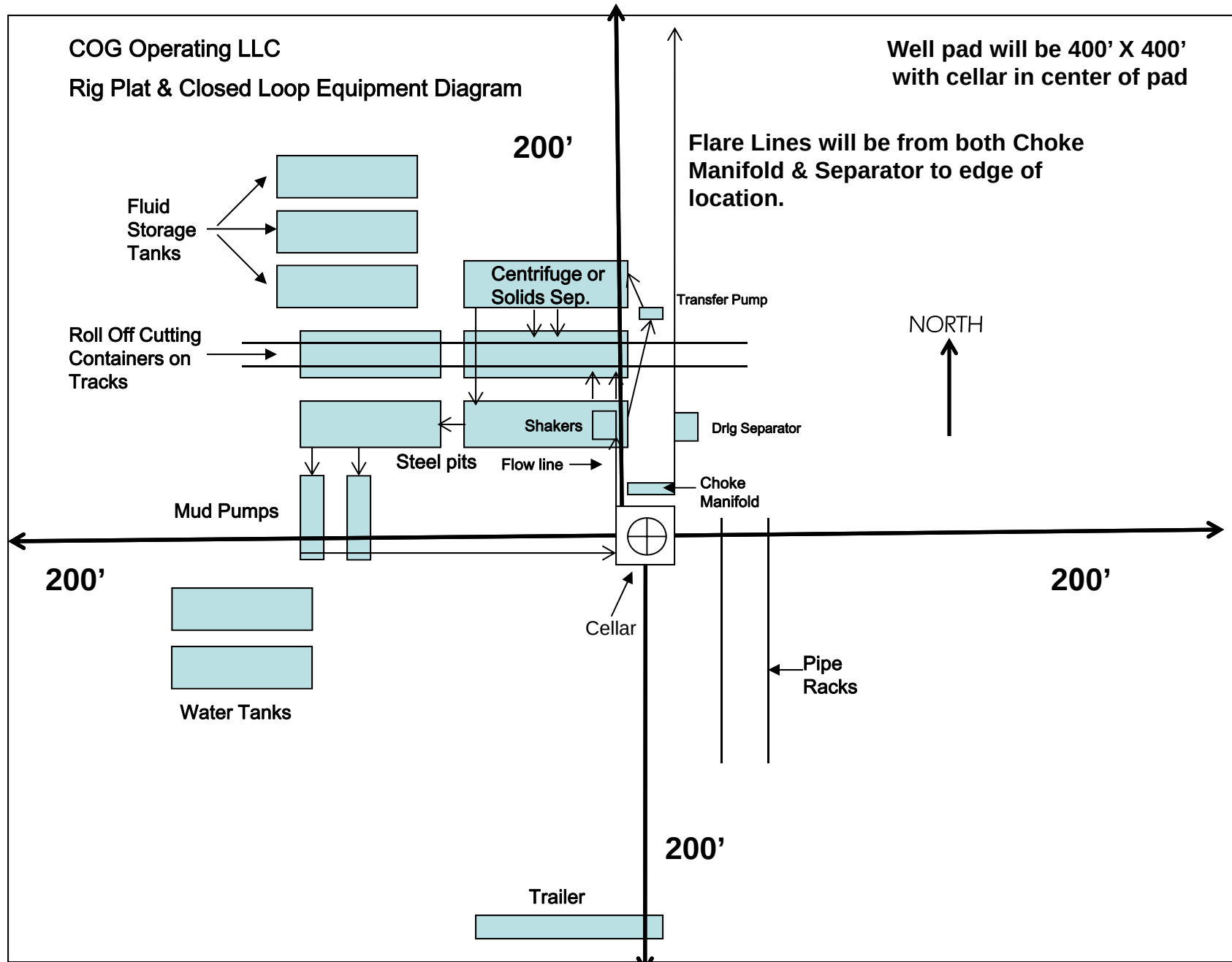


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #710H

OWB

PWP1

Anticollision Report

18 January, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	1/18/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,550.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,550.0	25,551.7	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ROCK JELLY FEDERAL PROJECT (ATLAS 2629)						
ROCK JELLY FED COM #702H - OWB - PWP1	9,592.1	9,697.8	861.2	840.8	42.339	CC
ROCK JELLY FED COM #702H - OWB - PWP1	25,552.1	25,692.8	996.8	726.0	3.681	ES, SF
ROCK JELLY FED COM #703H - OWB - PWP1	1,916.6	1,916.8	45.1	37.4	5.831	CC
ROCK JELLY FED COM #703H - OWB - PWP1	2,000.0	2,000.0	45.1	37.2	5.727	ES
ROCK JELLY FED COM #703H - OWB - PWP1	25,552.1	25,842.8	489.2	224.7	1.850	Advise and Monitor, SF
ROCK JELLY FED COM #704H - OWB - PWP1	2,000.0	2,000.0	54.8	47.4	7.336	CC, ES, SF
ROCK JELLY FED COM #705H - OWB - PWP1	2,000.0	1,999.9	76.1	69.0	10.779	CC, ES, SF
ROCK JELLY FED COM #711H - OWB - PWP1	2,500.0	2,499.9	30.1	23.2	4.364	CC, ES
ROCK JELLY FED COM #711H - OWB - PWP1	25,534.1	25,751.4	478.8	213.6	1.806	Advise and Monitor, SF
ROCK JELLY FED COM #712H - OWB - PWP1	2,500.0	2,499.7	60.1	53.2	8.713	CC, ES
ROCK JELLY FED COM #712H - OWB - PWP1	25,551.7	25,493.4	840.6	570.8	3.116	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ROCK JELLY FEDERAL PROJECT (ATLAS 2629)						
ROCK JELLY FED COM #702H - OWB - PWP1	25,552.1	25,692.8	996.8	726.0	3.681	ES, SF
ROCK JELLY FED COM #703H - OWB - PWP1	25,552.1	25,842.8	489.2	224.7	1.850	Advise and Monitor, SF
ROCK JELLY FED COM #704H - OWB - PWP1	25,552.1	25,741.6				Out of Range @TD
ROCK JELLY FED COM #705H - OWB - PWP1	25,552.1	25,505.0				Out of Range @TD
ROCK JELLY FED COM #711H - OWB - PWP1	25,552.1	25,753.2	479.1	214.0	1.807	Advise and Monitor
ROCK JELLY FED COM #712H - OWB - PWP1	25,552.1	25,493.4	840.6	570.9	3.116	

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 9759-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,100.0	8,071.3	8,378.1	8,247.8	10.2	12.4	33.28	312.0	1,428.5	977.3	959.0	18.29	53.427	
8,200.0	8,171.2	8,461.9	8,330.4	10.3	12.6	33.18	313.3	1,413.9	957.0	938.5	18.46	51.832	
8,300.0	8,271.2	8,546.5	8,413.8	10.4	12.7	33.05	314.6	1,400.4	939.6	920.9	18.64	50.411	
8,351.9	8,323.2	8,590.6	8,457.5	10.5	12.8	89.68	315.2	1,393.8	931.6	912.9	18.72	49.775	
8,400.0	8,371.2	8,631.6	8,498.0	10.5	12.9	89.64	315.7	1,388.0	924.9	906.1	18.78	49.251	
8,500.0	8,471.2	8,717.1	8,582.8	10.6	13.0	89.57	316.8	1,376.9	911.8	892.9	18.91	48.223	
8,600.0	8,571.2	8,800.0	8,665.2	10.8	13.1	89.51	317.6	1,367.2	900.3	881.2	19.03	47.302	
8,700.0	8,671.2	8,889.0	8,753.7	10.9	13.3	89.45	318.5	1,358.3	890.2	871.0	19.18	46.420	
8,800.0	8,771.2	8,975.3	8,839.7	11.0	13.4	89.40	319.2	1,350.8	881.6	862.3	19.32	45.641	
8,900.0	8,871.2	9,061.9	8,926.0	11.1	13.5	89.36	319.7	1,344.7	874.5	855.0	19.46	44.941	
9,000.0	8,971.2	9,148.6	9,012.6	11.2	13.5	89.33	320.2	1,339.8	868.9	849.3	19.61	44.317	
9,100.0	9,071.2	9,235.5	9,099.4	11.3	13.6	89.30	320.5	1,336.3	864.8	845.1	19.76	43.767	
9,200.0	9,171.2	9,322.4	9,186.3	11.4	13.6	89.29	320.7	1,334.1	862.3	842.3	19.92	43.290	
9,300.0	9,271.2	9,409.4	9,273.3	11.5	13.6	89.28	320.8	1,333.1	861.2	841.1	20.08	42.889	
9,341.9	9,313.1	9,448.6	9,312.5	11.6	13.7	89.28	320.8	1,333.1	861.2	841.0	20.13	42.786	
9,400.0	9,371.2	9,506.7	9,370.6	11.6	13.7	89.28	320.8	1,333.1	861.2	841.0	20.18	42.676	
9,500.0	9,471.2	9,606.7	9,470.6	11.8	13.8	89.28	320.8	1,333.1	861.2	840.9	20.27	42.486	
9,548.8	9,520.0	9,655.5	9,519.4	11.8	13.8	89.28	320.8	1,333.1	861.2	840.9	20.31	42.394	
9,550.0	9,521.2	9,656.7	9,520.6	11.8	13.8	-88.97	320.8	1,333.1	861.2	840.9	20.31	42.392	
9,592.1	9,563.3	9,697.8	9,561.7	11.8	13.8	-89.05	320.4	1,333.1	861.2	840.8	20.34	42.339 CC	
9,600.0	9,571.2	9,705.2	9,569.1	11.8	13.8	-89.07	320.1	1,333.1	861.2	840.8	20.34	42.328	
9,650.0	9,620.7	9,752.9	9,616.6	11.8	13.9	-89.19	315.7	1,333.3	861.2	840.8	20.38	42.255	
9,700.0	9,669.5	9,800.0	9,662.9	11.8	14.7	-89.32	307.5	1,333.7	861.3	840.9	20.41	42.204	
9,750.0	9,717.1	9,848.8	9,710.1	11.9	14.7	-89.46	295.0	1,334.3	861.5	841.1	20.43	42.164	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9759-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
9,800.0	9,763.3	9,897.1	9,755.5	11.9	14.7	-89.59	278.8	1,335.1	861.8	841.3	20.47	42.104	
9,850.0	9,807.5	9,945.5	9,799.6	11.9	14.7	-89.74	258.7	1,336.0	862.1	841.6	20.52	42.018	
9,900.0	9,849.6	9,994.2	9,842.0	11.9	14.8	-89.88	234.9	1,337.1	862.5	841.9	20.58	41.902	
9,950.0	9,889.2	10,043.1	9,882.4	12.0	14.8	-90.03	207.4	1,338.4	862.9	842.3	20.67	41.749	
10,000.0	9,926.0	10,092.2	9,920.5	12.0	14.9	-90.17	176.4	1,339.9	863.5	842.7	20.78	41.554	
10,050.0	9,959.7	10,141.6	9,955.9	12.1	14.9	-90.32	142.1	1,341.5	864.0	843.1	20.91	41.312	
10,100.0	9,990.0	10,191.2	9,988.5	12.2	15.0	-90.46	104.6	1,343.3	864.7	843.6	21.08	41.019	
10,150.0	10,016.8	10,241.2	10,017.8	12.2	15.1	-90.60	64.3	1,345.2	865.4	844.1	21.28	40.672	
10,200.0	10,039.8	10,291.4	10,043.7	12.3	15.1	-90.73	21.3	1,347.2	866.1	844.6	21.51	40.272	
10,250.0	10,058.8	10,341.9	10,065.7	12.4	15.2	-90.86	-24.0	1,349.3	866.9	845.1	21.77	39.822	
10,300.0	10,073.8	10,392.6	10,083.8	12.4	15.2	-90.98	-71.4	1,351.5	867.7	845.7	22.07	39.325	
10,350.0	10,084.5	10,443.7	10,097.7	12.5	15.3	-91.10	-120.4	1,353.8	868.6	846.2	22.39	38.790	
10,400.0	10,090.9	10,495.0	10,107.2	12.6	15.4	-91.21	-170.8	1,356.2	869.4	846.7	22.74	38.226	
10,451.4	10,093.0	10,548.0	10,112.3	12.6	15.4	-91.31	-223.5	1,358.7	870.3	847.2	23.13	37.625	
10,500.0	10,092.7	10,597.7	10,112.9	12.7	15.4	-91.36	-273.1	1,361.0	871.2	847.6	23.51	37.052	
10,600.0	10,092.3	10,697.7	10,112.4	12.9	15.5	-91.36	-373.0	1,365.7	872.8	848.4	24.37	35.810	
10,700.0	10,091.8	10,797.7	10,111.9	13.2	15.6	-91.36	-472.8	1,370.4	874.4	849.1	25.32	34.532	
10,800.0	10,091.3	10,897.6	10,111.5	13.5	15.7	-91.35	-572.7	1,375.1	876.1	849.7	26.35	33.247	
10,900.0	10,090.9	10,997.6	10,111.0	13.9	15.8	-91.35	-672.6	1,379.8	877.7	850.3	27.45	31.977	
11,000.0	10,090.4	11,097.6	10,110.6	14.3	15.9	-91.35	-772.5	1,384.5	879.4	850.7	28.61	30.739	
11,100.0	10,089.9	11,197.6	10,110.1	14.9	16.1	-91.35	-872.3	1,389.2	881.0	851.2	29.82	29.543	
11,200.0	10,089.5	11,297.6	10,109.6	15.4	16.4	-91.34	-972.2	1,393.9	882.6	851.6	31.08	28.396	
11,300.0	10,089.0	11,397.6	10,109.2	16.1	16.8	-91.34	-1,072.1	1,398.6	884.3	851.9	32.39	27.303	
11,400.0	10,088.6	11,497.6	10,108.7	16.7	17.4	-91.34	-1,172.0	1,403.3	885.9	852.2	33.73	26.265	
11,500.0	10,088.1	11,597.5	10,108.3	17.4	18.0	-91.34	-1,271.8	1,408.0	887.6	852.5	35.11	25.283	
11,600.0	10,087.6	11,697.5	10,107.8	18.1	18.7	-91.33	-1,371.7	1,412.7	889.2	852.7	36.51	24.355	
11,700.0	10,087.2	11,797.5	10,107.3	18.8	19.3	-91.33	-1,471.6	1,417.4	890.8	852.9	37.94	23.479	
11,800.0	10,086.7	11,897.5	10,106.9	19.5	20.0	-91.33	-1,571.5	1,422.1	892.5	853.1	39.40	22.654	
11,900.0	10,086.2	11,997.5	10,106.4	20.2	20.7	-91.33	-1,671.3	1,426.8	894.1	853.3	40.87	21.876	
12,000.0	10,085.8	12,097.5	10,106.0	21.0	21.5	-91.32	-1,771.2	1,431.5	895.8	853.4	42.37	21.143	
12,100.0	10,085.3	12,197.5	10,105.5	21.7	22.2	-91.32	-1,871.1	1,436.2	897.4	853.5	43.88	20.452	
12,200.0	10,084.9	12,297.5	10,105.0	22.5	22.9	-91.32	-1,971.0	1,440.9	899.0	853.6	45.40	19.801	
12,300.0	10,084.4	12,397.4	10,104.6	23.3	23.7	-91.32	-2,070.8	1,445.5	900.7	853.7	46.94	19.186	
12,400.0	10,083.9	12,497.4	10,104.1	24.1	24.5	-91.31	-2,170.7	1,450.2	902.3	853.8	48.50	18.606	
12,500.0	10,083.5	12,597.4	10,103.6	24.9	25.2	-91.31	-2,270.6	1,454.9	904.0	853.9	50.06	18.057	
12,600.0	10,083.0	12,697.4	10,103.2	25.7	26.0	-91.31	-2,370.5	1,459.6	905.6	854.0	51.64	17.539	
12,700.0	10,082.5	12,797.4	10,102.7	26.5	26.8	-91.31	-2,470.3	1,464.3	907.3	854.0	53.22	17.048	
12,800.0	10,082.1	12,897.4	10,102.3	27.3	27.6	-91.31	-2,570.2	1,469.0	908.9	854.1	54.81	16.583	
12,900.0	10,081.6	12,997.4	10,101.8	28.1	28.4	-91.30	-2,670.1	1,473.7	910.5	854.1	56.41	16.141	
13,000.0	10,081.2	13,097.3	10,101.3	28.9	29.2	-91.30	-2,770.0	1,478.4	912.2	854.2	58.02	15.723	
13,100.0	10,080.7	13,197.3	10,100.9	29.7	30.0	-91.30	-2,869.8	1,483.1	913.8	854.2	59.63	15.325	
13,200.0	10,080.2	13,297.3	10,100.4	30.5	30.8	-91.30	-2,969.7	1,487.8	915.5	854.2	61.25	14.946	
13,300.0	10,079.8	13,397.3	10,100.0	31.3	31.6	-91.29	-3,069.6	1,492.5	917.1	854.2	62.88	14.586	
13,400.0	10,079.3	13,497.3	10,099.5	32.1	32.4	-91.29	-3,169.5	1,497.2	918.7	854.2	64.51	14.243	
13,500.0	10,078.8	13,597.3	10,099.0	33.0	33.2	-91.29	-3,269.3	1,501.9	920.4	854.2	66.14	13.916	
13,600.0	10,078.4	13,697.3	10,098.6	33.8	34.0	-91.29	-3,369.2	1,506.6	922.0	854.2	67.78	13.603	
13,700.0	10,077.9	13,797.3	10,098.1	34.6	34.8	-91.29	-3,469.1	1,511.3	923.7	854.2	69.42	13.305	
13,800.0	10,077.5	13,897.2	10,097.7	35.4	35.6	-91.28	-3,569.0	1,516.0	925.3	854.2	71.07	13.019	
13,900.0	10,077.0	13,997.2	10,097.2	36.3	36.5	-91.28	-3,668.8	1,520.7	926.9	854.2	72.72	12.746	
14,000.0	10,076.5	14,097.2	10,096.7	37.1	37.3	-91.28	-3,768.7	1,525.4	928.6	854.2	74.38	12.485	
14,100.0	10,076.1	14,197.2	10,096.3	37.9	38.1	-91.28	-3,868.6	1,530.1	930.2	854.2	76.03	12.234	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9759-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	10,075.6	14,297.2	10,095.8	38.8	38.9	-91.28	-3,968.5	1,534.8	931.9	854.2	77.69	11.994		
14,300.0	10,075.1	14,397.2	10,095.3	39.6	39.8	-91.27	-4,068.3	1,539.5	933.5	854.2	79.36	11.763		
14,400.0	10,074.7	14,497.2	10,094.9	40.4	40.6	-91.27	-4,168.2	1,544.2	935.2	854.1	81.02	11.542		
14,500.0	10,074.2	14,597.1	10,094.4	41.3	41.4	-91.27	-4,268.1	1,548.9	936.8	854.1	82.69	11.329		
14,600.0	10,073.8	14,697.1	10,094.0	42.1	42.3	-91.27	-4,368.0	1,553.6	938.4	854.1	84.36	11.124		
14,700.0	10,073.3	14,797.1	10,093.5	43.0	43.1	-91.26	-4,467.8	1,558.3	940.1	854.0	86.03	10.927		
14,800.0	10,072.8	14,897.1	10,093.0	43.8	43.9	-91.26	-4,567.7	1,562.9	941.7	854.0	87.71	10.737		
14,900.0	10,072.4	14,997.1	10,092.6	44.6	44.8	-91.26	-4,667.6	1,567.6	943.4	854.0	89.39	10.554		
15,000.0	10,071.9	15,097.1	10,092.1	45.5	45.6	-91.26	-4,767.5	1,572.3	945.0	853.9	91.06	10.377		
15,100.0	10,071.4	15,197.1	10,091.7	46.3	46.4	-91.26	-4,867.3	1,577.0	946.6	853.9	92.74	10.207		
15,129.8	10,071.3	15,226.9	10,091.5	46.6	46.7	-91.26	-4,897.1	1,578.4	947.1	853.9	93.24	10.158		
15,200.0	10,071.0	15,307.7	10,091.2	47.2	47.4	-91.25	-4,977.9	1,582.1	949.0	854.5	94.51	10.041		
15,238.9	10,070.8	15,365.9	10,090.9	47.5	47.8	-91.24	-5,036.0	1,583.5	950.0	854.7	95.30	9.969		
15,300.0	10,070.5	15,449.5	10,090.5	48.0	48.5	-91.24	-5,119.6	1,583.6	950.5	854.1	96.44	9.856		
15,400.0	10,070.0	15,549.5	10,090.0	48.8	49.4	-91.24	-5,219.6	1,582.8	950.5	852.3	98.11	9.687		
15,500.0	10,069.6	15,649.5	10,089.6	49.7	50.2	-91.24	-5,319.6	1,582.0	950.4	850.6	99.79	9.524		
15,600.0	10,069.1	15,749.5	10,089.1	50.5	51.0	-91.24	-5,419.6	1,581.2	950.3	848.8	101.46	9.366		
15,700.0	10,068.7	15,849.5	10,088.7	51.4	51.9	-91.24	-5,519.6	1,580.3	950.2	847.1	103.14	9.213		
15,800.0	10,068.2	15,949.5	10,088.2	52.2	52.7	-91.24	-5,619.6	1,579.5	950.1	845.3	104.82	9.064		
15,900.0	10,067.7	16,049.5	10,087.7	53.0	53.6	-91.24	-5,719.6	1,578.7	950.1	843.6	106.50	8.920		
16,000.0	10,067.3	16,149.5	10,087.3	53.9	54.4	-91.24	-5,819.6	1,577.8	950.0	841.8	108.19	8.781		
16,100.0	10,066.8	16,249.5	10,086.8	54.7	55.2	-91.24	-5,919.6	1,577.0	949.9	840.0	109.87	8.646		
16,200.0	10,066.3	16,349.5	10,086.3	55.6	56.1	-91.24	-6,019.6	1,576.2	949.8	838.3	111.55	8.515		
16,300.0	10,065.9	16,449.5	10,085.9	56.4	56.9	-91.24	-6,119.6	1,575.4	949.7	836.5	113.24	8.387		
16,400.0	10,065.4	16,549.5	10,085.4	57.3	57.7	-91.24	-6,219.6	1,574.5	949.7	834.7	114.92	8.263		
16,500.0	10,064.9	16,649.5	10,085.0	58.1	58.6	-91.24	-6,319.6	1,573.7	949.6	833.0	116.61	8.143		
16,600.0	10,064.5	16,749.5	10,084.5	59.0	59.4	-91.24	-6,419.6	1,572.9	949.5	831.2	118.30	8.026		
16,700.0	10,064.0	16,849.5	10,084.0	59.8	60.3	-91.24	-6,519.6	1,572.0	949.4	829.4	119.99	7.913		
16,800.0	10,063.5	16,949.5	10,083.6	60.6	61.1	-91.25	-6,619.6	1,571.2	949.3	827.7	121.68	7.802		
16,900.0	10,063.1	17,049.5	10,083.1	61.5	62.0	-91.25	-6,719.6	1,570.4	949.3	825.9	123.37	7.695		
17,000.0	10,062.6	17,149.5	10,082.7	62.3	62.8	-91.25	-6,819.6	1,569.5	949.2	824.1	125.06	7.590		
17,100.0	10,062.2	17,249.5	10,082.2	63.2	63.6	-91.25	-6,919.6	1,568.7	949.1	822.4	126.75	7.488		
17,200.0	10,061.7	17,349.5	10,081.7	64.0	64.5	-91.25	-7,019.6	1,567.9	949.0	820.6	128.44	7.389		
17,300.0	10,061.2	17,449.5	10,081.3	64.9	65.3	-91.25	-7,119.6	1,567.1	948.9	818.8	130.13	7.292		
17,400.0	10,060.8	17,549.5	10,080.8	65.7	66.2	-91.25	-7,219.5	1,566.2	948.9	817.0	131.82	7.198		
17,500.0	10,060.3	17,649.5	10,080.3	66.6	67.0	-91.25	-7,319.5	1,565.4	948.8	815.3	133.52	7.106		
17,600.0	10,059.8	17,749.5	10,079.9	67.4	67.9	-91.25	-7,419.5	1,564.6	948.7	813.5	135.21	7.016		
17,700.0	10,059.4	17,849.5	10,079.4	68.3	68.7	-91.25	-7,519.5	1,563.7	948.6	811.7	136.91	6.929		
17,800.0	10,058.9	17,949.5	10,079.0	69.1	69.6	-91.25	-7,619.5	1,562.9	948.6	810.0	138.60	6.844		
17,900.0	10,058.4	18,049.5	10,078.5	70.0	70.4	-91.25	-7,719.5	1,562.1	948.5	808.2	140.30	6.760		
18,000.0	10,058.0	18,149.5	10,078.0	70.8	71.2	-91.25	-7,819.5	1,561.3	948.4	806.4	141.99	6.679		
18,100.0	10,057.5	18,249.5	10,077.6	71.7	72.1	-91.25	-7,919.5	1,560.4	948.3	804.6	143.69	6.600		
18,200.0	10,057.0	18,349.5	10,077.1	72.5	72.9	-91.25	-8,019.5	1,559.6	948.2	802.8	145.39	6.522		
18,300.0	10,056.6	18,449.5	10,076.7	73.4	73.8	-91.25	-8,119.5	1,558.8	948.2	801.1	147.09	6.446		
18,400.0	10,056.1	18,549.5	10,076.2	74.2	74.6	-91.25	-8,219.5	1,557.9	948.1	799.3	148.78	6.372		
18,500.0	10,055.7	18,649.5	10,075.7	75.1	75.5	-91.25	-8,319.5	1,557.1	948.0	797.5	150.48	6.300		
18,600.0	10,055.2	18,749.5	10,075.3	75.9	76.3	-91.25	-8,419.5	1,556.3	947.9	795.7	152.18	6.229		
18,700.0	10,054.7	18,849.5	10,074.8	76.8	77.2	-91.25	-8,519.5	1,555.4	947.8	794.0	153.88	6.160		
18,800.0	10,054.3	18,949.5	10,074.3	77.6	78.0	-91.25	-8,619.5	1,554.6	947.8	792.2	155.58	6.092		
18,900.0	10,053.8	19,049.5	10,073.9	78.5	78.9	-91.25	-8,719.5	1,553.8	947.7	790.4	157.28	6.025		
19,000.0	10,053.3	19,149.5	10,073.4	79.3	79.7	-91.25	-8,819.5	1,553.0	947.6	788.6	158.98	5.961		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 9759-MWD+IFR1+FDIR		Offset		Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,100.0	10,052.9	19,249.5	10,073.0	80.2	80.6	-91.25	-8,919.5	1,552.1	947.5	786.8	160.68	5.897			
19,200.0	10,052.4	19,349.5	10,072.5	81.0	81.4	-91.25	-9,019.5	1,551.3	947.4	785.1	162.38	5.835			
19,300.0	10,051.9	19,449.5	10,072.0	81.9	82.3	-91.25	-9,119.5	1,550.5	947.4	783.3	164.08	5.774			
19,400.0	10,051.5	19,549.5	10,071.6	82.7	83.1	-91.25	-9,219.5	1,549.6	947.3	781.5	165.78	5.714			
19,500.0	10,051.0	19,649.5	10,071.1	83.6	84.0	-91.25	-9,319.5	1,548.8	947.2	779.7	167.49	5.655			
19,600.0	10,050.5	19,749.5	10,070.6	84.4	84.8	-91.25	-9,419.4	1,548.0	947.1	777.9	169.19	5.598			
19,700.0	10,050.1	19,849.5	10,070.2	85.3	85.7	-91.25	-9,519.4	1,547.2	947.0	776.2	170.89	5.542			
19,800.0	10,049.6	19,949.5	10,069.7	86.1	86.5	-91.25	-9,619.4	1,546.3	947.0	774.4	172.59	5.487			
19,900.0	10,049.2	20,049.5	10,069.3	87.0	87.4	-91.25	-9,719.4	1,545.5	946.9	772.6	174.29	5.433			
20,000.0	10,048.7	20,149.5	10,068.8	87.8	88.2	-91.25	-9,819.4	1,544.7	946.8	770.8	176.00	5.380			
20,100.0	10,048.2	20,249.5	10,068.3	88.7	89.1	-91.25	-9,919.4	1,543.8	946.7	769.0	177.70	5.328			
20,200.0	10,047.8	20,349.5	10,067.9	89.6	89.9	-91.25	-10,019.4	1,543.0	946.7	767.2	179.40	5.277			
20,300.0	10,047.3	20,449.5	10,067.4	90.4	90.8	-91.25	-10,119.4	1,542.2	946.6	765.5	181.11	5.227			
20,400.0	10,046.8	20,549.5	10,067.0	91.3	91.6	-91.25	-10,219.4	1,541.3	946.5	763.7	182.81	5.177			
20,471.9	10,046.5	20,621.4	10,066.6	91.9	92.2	-91.26	-10,291.3	1,540.8	946.4	762.4	184.04	5.143			
20,474.2	10,046.5	20,623.7	10,066.6	91.9	92.2	-91.25	-10,293.6	1,540.7	946.4	762.4	184.08	5.142			
20,476.8	10,046.5	20,626.3	10,066.6	91.9	92.3	-91.25	-10,296.2	1,540.7	946.4	762.3	184.12	5.140			
20,500.0	10,046.4	20,643.9	10,066.5	92.1	92.4	-91.25	-10,313.8	1,540.6	946.5	762.0	184.49	5.131			
20,600.0	10,045.9	20,740.9	10,066.1	93.0	93.2	-91.25	-10,410.8	1,540.7	947.5	761.3	186.18	5.089			
20,700.0	10,045.4	20,840.9	10,065.6	93.8	94.1	-91.25	-10,510.8	1,540.7	948.5	760.6	187.88	5.048			
20,800.0	10,045.0	20,940.9	10,065.2	94.7	95.0	-91.25	-10,610.8	1,540.8	949.5	759.9	189.59	5.008			
20,900.0	10,044.5	21,040.9	10,064.7	95.5	95.8	-91.25	-10,710.8	1,540.9	950.5	759.2	191.29	4.969			
21,000.0	10,044.1	21,140.9	10,064.2	96.4	96.7	-91.25	-10,810.8	1,541.0	951.5	758.5	193.00	4.930			
21,100.0	10,043.6	21,240.9	10,063.8	97.2	97.5	-91.25	-10,910.8	1,541.0	952.5	757.8	194.71	4.892			
21,200.0	10,043.1	21,340.9	10,063.3	98.1	98.4	-91.25	-11,010.8	1,541.1	953.5	757.1	196.41	4.854			
21,300.0	10,042.7	21,440.9	10,062.8	98.9	99.2	-91.24	-11,110.8	1,541.2	954.5	756.4	198.12	4.818			
21,400.0	10,042.2	21,540.9	10,062.4	99.8	100.1	-91.24	-11,210.8	1,541.3	955.5	755.6	199.83	4.782			
21,500.0	10,041.7	21,640.9	10,061.9	100.6	100.9	-91.24	-11,310.8	1,541.3	956.5	754.9	201.53	4.746			
21,600.0	10,041.3	21,740.9	10,061.5	101.5	101.8	-91.24	-11,410.8	1,541.4	957.5	754.2	203.24	4.711			
21,700.0	10,040.8	21,840.9	10,061.0	102.4	102.6	-91.24	-11,510.8	1,541.5	958.5	753.5	204.95	4.677			
21,800.0	10,040.4	21,940.9	10,060.5	103.2	103.5	-91.24	-11,610.8	1,541.6	959.4	752.8	206.65	4.643			
21,900.0	10,039.9	22,040.9	10,060.1	104.1	104.3	-91.24	-11,710.8	1,541.6	960.4	752.1	208.36	4.610			
22,000.0	10,039.4	22,140.9	10,059.6	104.9	105.2	-91.24	-11,810.8	1,541.7	961.4	751.4	210.07	4.577			
22,100.0	10,039.0	22,240.9	10,059.1	105.8	106.0	-91.23	-11,910.8	1,541.8	962.4	750.7	211.78	4.545			
22,200.0	10,038.5	22,340.9	10,058.7	106.6	106.9	-91.23	-12,010.7	1,541.9	963.4	749.9	213.48	4.513			
22,300.0	10,038.0	22,440.9	10,058.2	107.5	107.7	-91.23	-12,110.7	1,541.9	964.4	749.2	215.19	4.482			
22,400.0	10,037.6	22,540.9	10,057.8	108.3	108.6	-91.23	-12,210.7	1,542.0	965.4	748.5	216.90	4.451			
22,500.0	10,037.1	22,640.8	10,057.3	109.2	109.5	-91.23	-12,310.7	1,542.1	966.4	747.8	218.61	4.421			
22,600.0	10,036.7	22,740.8	10,056.8	110.0	110.3	-91.23	-12,410.7	1,542.2	967.4	747.1	220.32	4.391			
22,700.0	10,036.2	22,840.8	10,056.4	110.9	111.2	-91.23	-12,510.7	1,542.2	968.4	746.4	222.03	4.362			
22,800.0	10,035.7	22,940.8	10,055.9	111.7	112.0	-91.23	-12,610.7	1,542.3	969.4	745.7	223.73	4.333			
22,900.0	10,035.3	23,040.8	10,055.5	112.6	112.9	-91.22	-12,710.7	1,542.4	970.4	745.0	225.44	4.304			
23,000.0	10,034.8	23,140.8	10,055.0	113.5	113.7	-91.22	-12,810.7	1,542.5	971.4	744.2	227.15	4.276			
23,100.0	10,034.3	23,240.8	10,054.5	114.3	114.6	-91.22	-12,910.7	1,542.5	972.4	743.5	228.86	4.249			
23,200.0	10,033.9	23,340.8	10,054.1	115.2	115.4	-91.22	-13,010.7	1,542.6	973.4	742.8	230.57	4.222			
23,300.0	10,033.4	23,440.8	10,053.6	116.0	116.3	-91.22	-13,110.7	1,542.7	974.4	742.1	232.28	4.195			
23,400.0	10,033.0	23,540.8	10,053.1	116.9	117.1	-91.22	-13,210.7	1,542.8	975.4	741.4	233.99	4.168			
23,500.0	10,032.5	23,640.8	10,052.7	117.7	118.0	-91.22	-13,310.7	1,542.8	976.4	740.7	235.70	4.142			
23,600.0	10,032.0	23,740.8	10,052.2	118.6	118.9	-91.22	-13,410.7	1,542.9	977.4	740.0	237.41	4.117			
23,700.0	10,031.6	23,840.8	10,051.8	119.4	119.7	-91.22	-13,510.7	1,543.0	978.4	739.2	239.12	4.092			
23,800.0	10,031.1	23,940.8	10,051.3	120.3	120.6	-91.21	-13,610.7	1,543.1	979.4	738.5	240.83	4.067			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9759-MWD+IFR1+FDIR					Rule Assigned:				Offset Well Error:		3.0 usft	
Reference	Offset	Semi Major Axis				Offset Wellbore Centre		Distance						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
23,900.0	10,030.6	24,040.8	10,050.8	121.1	121.4	-91.21	-13,710.6	1,543.1	980.3	737.8	242.54	4.042		
24,000.0	10,030.2	24,140.8	10,050.4	122.0	122.3	-91.21	-13,810.6	1,543.2	981.3	737.1	244.25	4.018		
24,100.0	10,029.7	24,240.8	10,049.9	122.9	123.1	-91.21	-13,910.6	1,543.3	982.3	736.4	245.96	3.994		
24,200.0	10,029.3	24,340.8	10,049.5	123.7	124.0	-91.21	-14,010.6	1,543.4	983.3	735.7	247.67	3.970		
24,300.0	10,028.8	24,440.8	10,049.0	124.6	124.8	-91.21	-14,110.6	1,543.4	984.3	735.0	249.38	3.947		
24,400.0	10,028.3	24,540.8	10,048.5	125.4	125.7	-91.21	-14,210.6	1,543.5	985.3	734.2	251.09	3.924		
24,500.0	10,027.9	24,640.7	10,048.1	126.3	126.5	-91.21	-14,310.6	1,543.6	986.3	733.5	252.80	3.902		
24,600.0	10,027.4	24,740.7	10,047.6	127.1	127.4	-91.20	-14,410.6	1,543.7	987.3	732.8	254.51	3.879		
24,700.0	10,026.9	24,840.7	10,047.1	128.0	128.3	-91.20	-14,510.6	1,543.7	988.3	732.1	256.22	3.857		
24,800.0	10,026.5	24,940.7	10,046.7	128.8	129.1	-91.20	-14,610.6	1,543.8	989.3	731.4	257.93	3.836		
24,900.0	10,026.0	25,040.7	10,046.2	129.7	130.0	-91.20	-14,710.6	1,543.9	990.3	730.7	259.64	3.814		
25,000.0	10,025.6	25,140.7	10,045.8	130.6	130.8	-91.20	-14,810.6	1,544.0	991.3	729.9	261.35	3.793		
25,100.0	10,025.1	25,240.7	10,045.3	131.4	131.7	-91.20	-14,910.6	1,544.0	992.3	729.2	263.06	3.772		
25,200.0	10,024.6	25,340.7	10,044.8	132.3	132.5	-91.20	-15,010.6	1,544.1	993.3	728.5	264.77	3.751		
25,300.0	10,024.2	25,440.7	10,044.4	133.1	133.4	-91.20	-15,110.6	1,544.2	994.3	727.8	266.48	3.731		
25,400.0	10,023.7	25,540.7	10,043.9	134.0	134.2	-91.20	-15,210.6	1,544.3	995.3	727.1	268.19	3.711		
25,500.0	10,023.2	25,640.7	10,043.4	134.8	135.1	-91.19	-15,310.5	1,544.3	996.3	726.4	269.90	3.691		
25,551.7	10,023.0	25,692.4	10,043.2	135.3	135.5	-91.19	-15,362.3	1,544.4	996.8	726.0	270.79	3.681		
25,552.1	10,023.0	25,692.8	10,043.2	135.3	135.5	-91.19	-15,362.6	1,544.4	996.8	726.0	270.79	3.681 ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9730-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.2	0.2	3.0	3.0	-1.78	45.1	-1.4	45.1				
100.0	100.0	100.2	100.2	3.0	3.0	-1.78	45.1	-1.4	45.1	39.1	6.00	7.519	
200.0	200.0	200.2	200.2	3.0	3.0	-1.78	45.1	-1.4	45.1	39.1	6.01	7.507	
300.0	300.0	300.2	300.2	3.0	3.0	-1.78	45.1	-1.4	45.1	39.1	6.03	7.480	
400.0	400.0	400.2	400.2	3.0	3.0	-1.78	45.1	-1.4	45.1	39.1	6.07	7.439	
500.0	500.0	500.2	500.2	3.1	3.1	-1.78	45.1	-1.4	45.1	39.0	6.11	7.385	
600.0	600.0	600.2	600.2	3.1	3.1	-1.78	45.1	-1.4	45.1	39.0	6.17	7.319	
700.0	700.0	700.2	700.2	3.1	3.1	-1.78	45.1	-1.4	45.1	38.9	6.23	7.242	
800.0	800.0	800.2	800.2	3.2	3.2	-1.78	45.1	-1.4	45.1	38.8	6.31	7.154	
900.0	900.0	900.2	900.2	3.2	3.2	-1.78	45.1	-1.4	45.1	38.7	6.39	7.058	
1,000.0	1,000.0	1,000.2	1,000.2	3.2	3.2	-1.78	45.1	-1.4	45.1	38.6	6.49	6.954	
1,100.0	1,100.0	1,100.2	1,100.2	3.3	3.3	-1.78	45.1	-1.4	45.1	38.5	6.59	6.843	
1,200.0	1,200.0	1,200.2	1,200.2	3.4	3.4	-1.78	45.1	-1.4	45.1	38.4	6.71	6.727	
1,300.0	1,300.0	1,300.2	1,300.2	3.4	3.4	-1.78	45.1	-1.4	45.1	38.3	6.83	6.607	
1,400.0	1,400.0	1,400.2	1,400.2	3.5	3.5	-1.78	45.1	-1.4	45.1	38.2	6.96	6.484	
1,500.0	1,500.0	1,500.2	1,500.2	3.5	3.5	-1.78	45.1	-1.4	45.1	38.0	7.10	6.358	
1,600.0	1,600.0	1,600.2	1,600.2	3.6	3.6	-1.78	45.1	-1.4	45.1	37.9	7.24	6.232	
1,700.0	1,700.0	1,700.2	1,700.2	3.7	3.7	-1.78	45.1	-1.4	45.1	37.7	7.39	6.105	
1,800.0	1,800.0	1,800.2	1,800.2	3.8	3.8	-1.78	45.1	-1.4	45.1	37.6	7.55	5.978	
1,900.0	1,900.0	1,900.2	1,900.2	3.9	3.9	-1.78	45.1	-1.4	45.1	37.4	7.71	5.851	
1,916.6	1,916.6	1,916.8	1,916.8	3.9	3.9	-1.78	45.1	-1.4	45.1	37.4	7.74	5.831 CC	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-1.78	45.1	-1.4	45.1	37.2	7.88	5.727 ES	
2,100.0	2,100.0	2,099.8	2,099.7	4.0	4.0	0.33	45.6	0.3	45.6	37.6	8.03	5.679	
2,200.0	2,200.0	2,199.1	2,198.9	4.1	4.0	6.32	47.1	5.2	47.4	39.3	8.15	5.814	
2,300.0	2,300.0	2,297.9	2,297.4	4.2	4.1	15.13	49.6	13.4	51.4	43.2	8.23	6.249	
2,400.0	2,400.0	2,396.0	2,394.8	4.3	4.1	25.03	53.0	24.8	58.8	50.5	8.23	7.138	
2,500.0	2,500.0	2,495.0	2,492.8	4.4	4.2	33.64	57.0	37.9	68.9	60.7	8.20	8.397	
2,600.0	2,600.0	2,594.2	2,591.0	4.5	4.3	-17.03	61.0	51.2	78.5	70.3	8.21	9.562	
2,700.0	2,699.8	2,693.8	2,689.7	4.5	4.3	-12.87	65.0	64.4	85.4	77.1	8.26	10.337	
2,800.0	2,799.5	2,793.6	2,788.5	4.6	4.4	-9.72	69.0	77.7	89.2	80.8	8.33	10.702	
2,900.0	2,898.9	2,893.5	2,887.4	4.7	4.5	-6.98	73.1	91.0	91.5	83.1	8.42	10.870	
3,000.0	2,998.4	2,993.4	2,986.3	4.8	4.5	-4.38	77.1	104.3	94.0	85.5	8.50	11.053	
3,100.0	3,097.8	3,093.3	3,085.2	4.8	4.6	-1.92	81.1	117.6	96.7	88.1	8.60	11.248	
3,200.0	3,197.3	3,193.1	3,184.1	4.9	4.7	0.40	85.2	130.9	99.6	90.9	8.69	11.453	
3,300.0	3,296.7	3,293.0	3,283.0	5.0	4.8	2.59	89.2	144.2	102.6	93.8	8.80	11.666	
3,400.0	3,396.2	3,392.9	3,381.9	5.1	4.8	4.65	93.2	157.5	105.8	96.9	8.90	11.884	
3,500.0	3,495.6	3,492.8	3,480.9	5.2	4.9	6.59	97.2	170.8	109.1	100.1	9.01	12.107	
3,600.0	3,595.1	3,592.7	3,579.8	5.2	5.0	8.41	101.3	184.2	112.5	103.4	9.12	12.331	
3,700.0	3,694.5	3,692.5	3,678.7	5.3	5.1	10.13	105.3	197.5	116.0	106.8	9.24	12.557	
3,800.0	3,794.0	3,792.4	3,777.6	5.4	5.2	11.74	109.3	210.8	119.6	110.3	9.36	12.782	
3,900.0	3,893.4	3,892.3	3,876.5	5.5	5.3	13.26	113.3	224.1	123.3	113.9	9.48	13.006	
4,000.0	3,992.9	3,992.2	3,975.4	5.6	5.4	14.68	117.4	237.4	127.1	117.5	9.61	13.228	
4,100.0	4,092.3	4,092.1	4,074.3	5.7	5.5	16.03	121.4	250.7	131.0	121.3	9.74	13.447	
4,200.0	4,191.8	4,191.9	4,173.2	5.8	5.6	17.29	125.4	264.0	134.9	125.1	9.88	13.662	
4,300.0	4,291.2	4,291.8	4,272.1	5.9	5.7	18.49	129.5	277.3	138.9	128.9	10.01	13.873	
4,400.0	4,390.7	4,391.7	4,371.0	6.0	5.8	19.61	133.5	290.6	143.0	132.8	10.16	14.079	
4,500.0	4,490.1	4,491.6	4,469.9	6.1	5.9	20.68	137.5	303.9	147.1	136.8	10.30	14.280	
4,600.0	4,589.6	4,591.5	4,568.8	6.2	6.0	21.68	141.5	317.2	151.2	140.8	10.45	14.476	
4,700.0	4,689.0	4,691.3	4,667.7	6.3	6.1	22.64	145.6	330.5	155.4	144.8	10.60	14.666	
4,800.0	4,788.5	4,791.2	4,766.7	6.4	6.2	23.54	149.6	343.8	159.7	148.9	10.75	14.851	
4,900.0	4,887.9	4,891.1	4,865.6	6.5	6.3	24.39	153.6	357.1	163.9	153.0	10.91	15.030	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9730-MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:		3.0 usft
Reference	Offset	Semi Major Axis				Offset Wellbore Centre		Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,987.4	4,991.0	4,964.5	6.6	6.4	25.20	157.6	370.4	168.2	157.2	11.07	15.203		
5,100.0	5,086.9	5,090.9	5,063.4	6.7	6.5	25.97	161.7	383.7	172.6	161.4	11.23	15.370		
5,200.0	5,186.3	5,190.7	5,162.3	6.8	6.6	26.71	165.7	397.0	177.0	165.6	11.39	15.532		
5,300.0	5,285.8	5,290.6	5,261.2	6.9	6.7	27.40	169.7	410.3	181.4	169.8	11.56	15.687		
5,400.0	5,385.2	5,390.5	5,360.1	7.1	6.9	28.07	173.8	423.6	185.8	174.0	11.73	15.837		
5,500.0	5,484.7	5,490.4	5,459.0	7.2	7.0	28.70	177.8	436.9	190.2	178.3	11.90	15.981		
5,600.0	5,584.1	5,590.3	5,557.9	7.3	7.1	29.31	181.8	450.2	194.7	182.6	12.08	16.120		
5,700.0	5,683.6	5,690.1	5,656.8	7.4	7.2	29.88	185.8	463.5	199.2	186.9	12.26	16.253		
5,800.0	5,783.0	5,790.0	5,755.7	7.5	7.3	30.44	189.9	476.9	203.7	191.3	12.43	16.381		
5,900.0	5,882.5	5,889.9	5,854.6	7.6	7.4	30.96	193.9	490.2	208.2	195.6	12.62	16.503		
6,000.0	5,981.9	5,989.8	5,953.5	7.7	7.5	31.47	197.9	503.5	212.8	200.0	12.80	16.621		
6,100.0	6,081.4	6,089.7	6,052.4	7.8	7.7	31.95	201.9	516.8	217.3	204.3	12.99	16.733		
6,200.0	6,180.8	6,189.5	6,151.4	7.9	7.8	32.42	206.0	530.1	221.9	208.7	13.18	16.841		
6,300.0	6,280.3	6,289.4	6,250.3	8.1	7.9	32.86	210.0	543.4	226.5	213.1	13.37	16.944		
6,400.0	6,379.7	6,389.3	6,349.2	8.2	8.0	33.29	214.0	556.7	231.1	217.5	13.56	17.042		
6,500.0	6,479.2	6,489.2	6,448.1	8.3	8.1	33.70	218.1	570.0	235.7	221.9	13.75	17.136		
6,600.0	6,578.6	6,589.1	6,547.0	8.4	8.3	34.10	222.1	583.3	240.3	226.4	13.95	17.226		
6,700.0	6,678.1	6,688.9	6,645.9	8.5	8.4	34.48	226.1	596.6	245.0	230.8	14.15	17.311		
6,800.0	6,777.5	6,788.8	6,744.8	8.6	8.5	34.84	230.1	609.9	249.6	235.3	14.35	17.393		
6,900.0	6,877.0	6,888.7	6,843.7	8.8	8.6	35.20	234.2	623.2	254.3	239.7	14.55	17.471		
7,000.0	6,976.4	6,988.6	6,942.6	8.9	8.8	35.54	238.2	636.5	258.9	244.2	14.76	17.545		
7,100.0	7,075.9	7,088.4	7,041.5	9.0	8.9	35.86	242.2	649.8	263.6	248.6	14.96	17.615		
7,200.0	7,175.3	7,188.3	7,140.4	9.1	9.0	36.18	246.2	663.1	268.3	253.1	15.17	17.682		
7,300.0	7,274.8	7,288.2	7,239.3	9.2	9.1	36.49	250.3	676.4	273.0	257.6	15.38	17.746		
7,400.0	7,374.3	7,388.1	7,338.2	9.4	9.3	36.78	254.3	689.7	277.7	262.1	15.59	17.806		
7,500.0	7,473.7	7,488.0	7,437.2	9.5	9.4	37.07	258.3	703.0	282.4	266.6	15.81	17.863		
7,600.0	7,573.2	7,587.8	7,536.1	9.6	9.5	37.34	262.3	716.3	287.1	271.1	16.02	17.918		
7,700.0	7,672.6	7,687.7	7,635.0	9.7	9.7	37.61	266.4	729.6	291.8	275.6	16.24	17.969		
7,751.9	7,724.3	7,739.6	7,686.3	9.8	9.7	37.75	268.5	736.5	294.3	277.9	16.35	17.995		
7,800.0	7,772.1	7,787.6	7,733.9	9.8	9.8	37.86	270.4	742.9	296.7	280.2	16.46	18.026		
7,900.0	7,871.7	7,887.4	7,832.7	10.0	9.9	37.95	274.4	756.2	302.8	286.1	16.69	18.141		
8,000.0	7,971.4	7,987.1	7,931.5	10.1	10.0	37.84	278.4	769.5	310.2	293.3	16.93	18.323		
8,100.0	8,071.3	8,086.7	8,030.1	10.2	10.2	37.56	282.5	782.8	319.1	301.9	17.18	18.573		
8,200.0	8,171.2	8,186.2	8,128.5	10.3	10.3	37.12	286.5	796.0	329.3	311.9	17.43	18.887		
8,300.0	8,271.2	8,285.4	8,226.8	10.4	10.4	36.55	290.5	809.2	340.9	323.2	17.70	19.260		
8,351.9	8,323.2	8,336.9	8,277.8	10.5	10.5	92.90	292.5	816.1	347.5	329.7	17.83	19.491		
8,400.0	8,371.2	8,384.5	8,324.9	10.5	10.6	92.54	294.5	822.4	353.9	335.9	17.94	19.726		
8,500.0	8,471.2	8,483.5	8,423.0	10.6	10.7	91.82	298.5	835.6	367.0	348.9	18.16	20.208		
8,600.0	8,571.2	8,588.4	8,527.0	10.8	10.9	91.14	302.5	848.9	379.6	361.2	18.37	20.660		
8,700.0	8,671.2	8,694.5	8,632.4	10.9	11.0	90.59	306.0	860.5	390.4	371.9	18.58	21.014		
8,800.0	8,771.2	8,801.1	8,738.5	11.0	11.1	90.15	308.9	870.2	399.6	380.8	18.79	21.267		
8,900.0	8,871.2	8,908.0	8,845.1	11.1	11.3	89.82	311.3	878.1	406.9	387.9	19.00	21.421		
9,000.0	8,971.2	9,015.2	8,952.1	11.2	11.4	89.57	313.1	884.0	412.5	393.3	19.21	21.479		
9,100.0	9,071.2	9,122.6	9,059.4	11.3	11.5	89.40	314.3	888.1	416.3	396.9	19.42	21.440		
9,200.0	9,171.2	9,230.1	9,166.8	11.4	11.6	89.32	315.0	890.2	418.3	398.7	19.62	21.316		
9,300.0	9,271.2	9,334.6	9,271.4	11.5	11.7	89.30	315.1	890.6	418.6	398.9	19.77	21.174		
9,400.0	9,371.2	9,434.6	9,371.4	11.6	11.8	89.30	315.1	890.6	418.6	398.8	19.86	21.075		
9,500.0	9,471.2	9,534.6	9,471.4	11.8	11.9	89.30	315.1	890.6	418.6	398.7	19.96	20.976		
9,548.8	9,520.0	9,583.4	9,520.2	11.8	11.9	89.30	315.1	890.6	418.6	398.6	20.00	20.928		
9,550.0	9,521.2	9,584.6	9,521.4	11.8	11.9	-88.95	315.1	890.6	418.6	398.6	20.00	20.927		
9,600.0	9,571.2	9,634.6	9,571.4	11.8	12.0	-89.26	315.1	890.6	418.6	398.5	20.06	20.870		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9730-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Tooface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,642.8	9,613.6	9,677.0	9,613.8	11.8	12.0	-90.00	315.1	890.6	418.6	398.4	20.15	20.772	
9,650.0	9,620.7	9,684.1	9,620.9	11.8	12.0	-90.16	315.1	890.6	418.6	398.4	20.17	20.752	
9,700.0	9,669.5	9,732.9	9,669.7	11.8	12.1	-91.60	315.1	890.6	418.7	398.4	20.34	20.588	
9,750.0	9,717.1	9,780.5	9,717.3	11.9	12.1	-93.50	315.1	890.6	419.4	398.9	20.57	20.394	
9,800.0	9,763.3	9,826.7	9,763.5	11.9	12.1	-95.74	315.1	890.6	421.1	400.3	20.85	20.195	
9,850.0	9,807.5	9,876.6	9,813.3	11.9	12.1	-98.34	313.2	890.7	424.0	402.9	21.15	20.051	
9,900.0	9,849.6	9,929.0	9,865.3	11.9	12.1	-100.93	306.5	890.9	428.0	406.6	21.44	19.966	
9,950.0	9,889.2	9,983.9	9,918.8	12.0	12.1	-103.48	294.4	891.2	432.9	411.2	21.73	19.920	
10,000.0	9,926.0	10,041.6	9,973.6	12.0	12.2	-105.97	276.3	891.8	438.6	416.5	22.06	19.883	
10,050.0	9,959.7	10,102.5	10,029.1	12.1	12.2	-108.37	251.3	892.6	444.9	422.5	22.45	19.821	
10,100.0	9,990.0	10,166.8	10,084.4	12.2	12.3	-110.68	218.6	893.6	451.7	428.7	22.93	19.696	
10,150.0	10,016.8	10,234.9	10,138.6	12.2	12.3	-112.84	177.6	894.8	458.5	435.0	23.53	19.488	
10,200.0	10,039.8	10,306.8	10,190.2	12.3	12.4	-114.84	127.6	896.4	465.3	441.0	24.24	19.193	
10,250.0	10,058.8	10,382.6	10,237.4	12.4	12.5	-116.61	68.3	898.2	471.5	446.4	25.05	18.825	
10,300.0	10,073.8	10,462.2	10,278.0	12.4	12.6	-118.11	-0.1	900.3	476.9	451.0	25.89	18.424	
10,350.0	10,084.5	10,545.2	10,309.8	12.5	12.7	-119.27	-76.6	902.7	481.2	454.6	26.68	18.037	
10,400.0	10,090.9	10,630.8	10,330.7	12.6	12.9	-120.06	-159.5	905.2	484.2	456.8	27.35	17.706	
10,451.4	10,093.0	10,720.4	10,339.1	12.6	13.0	-120.43	-248.6	908.0	485.6	457.8	27.81	17.464	
10,500.0	10,092.7	10,773.9	10,339.0	12.7	13.1	-120.44	-302.1	909.6	485.6	457.5	28.10	17.284	
10,600.0	10,092.3	10,873.9	10,338.5	12.9	13.4	-120.44	-402.0	912.7	485.7	456.9	28.77	16.882	
10,700.0	10,091.8	10,973.9	10,338.1	13.2	13.7	-120.44	-502.0	915.8	485.7	456.2	29.52	16.454	
10,800.0	10,091.3	11,073.9	10,337.7	13.5	14.1	-120.44	-601.9	918.8	485.7	455.4	30.34	16.007	
10,900.0	10,090.9	11,173.9	10,337.2	13.9	14.6	-120.45	-701.9	921.9	485.8	454.5	31.24	15.550	
11,000.0	10,090.4	11,273.9	10,336.8	14.3	15.1	-120.45	-801.8	925.0	485.8	453.6	32.20	15.089	
11,100.0	10,089.9	11,373.9	10,336.4	14.9	15.6	-120.45	-901.8	928.1	485.8	452.6	33.21	14.628	
11,200.0	10,089.5	11,473.9	10,335.9	15.4	16.2	-120.45	-1,001.7	931.2	485.9	451.6	34.28	14.174	
11,300.0	10,089.0	11,573.9	10,335.5	16.1	16.8	-120.45	-1,101.7	934.2	485.9	450.5	35.40	13.728	
11,400.0	10,088.6	11,673.9	10,335.1	16.7	17.4	-120.45	-1,201.6	937.3	485.9	449.4	36.56	13.293	
11,500.0	10,088.1	11,773.9	10,334.6	17.4	18.1	-120.46	-1,301.6	940.4	486.0	448.2	37.75	12.872	
11,600.0	10,087.6	11,873.9	10,334.2	18.1	18.8	-120.46	-1,401.5	943.5	486.0	447.0	38.99	12.466	
11,700.0	10,087.2	11,973.9	10,333.8	18.8	19.5	-120.46	-1,501.5	946.6	486.0	445.8	40.26	12.074	
11,800.0	10,086.7	12,073.9	10,333.3	19.5	20.2	-120.46	-1,601.4	949.6	486.1	444.5	41.55	11.698	
11,900.0	10,086.2	12,173.9	10,332.9	20.2	20.9	-120.46	-1,701.4	952.7	486.1	443.2	42.88	11.338	
12,000.0	10,085.8	12,273.9	10,332.5	21.0	21.6	-120.46	-1,801.3	955.8	486.1	441.9	44.22	10.993	
12,100.0	10,085.3	12,373.9	10,332.0	21.7	22.4	-120.46	-1,901.3	958.9	486.2	440.6	45.59	10.663	
12,200.0	10,084.9	12,473.9	10,331.6	22.5	23.1	-120.47	-2,001.2	961.9	486.2	439.2	46.98	10.349	
12,300.0	10,084.4	12,573.9	10,331.2	23.3	23.9	-120.47	-2,101.2	965.0	486.3	437.9	48.39	10.048	
12,400.0	10,083.9	12,673.9	10,330.7	24.1	24.6	-120.47	-2,201.2	968.1	486.3	436.5	49.82	9.761	
12,500.0	10,083.5	12,773.9	10,330.3	24.9	25.4	-120.47	-2,301.1	971.2	486.3	435.1	51.26	9.487	
12,600.0	10,083.0	12,873.9	10,329.8	25.7	26.2	-120.47	-2,401.1	974.3	486.4	433.6	52.72	9.226	
12,700.0	10,082.5	12,973.9	10,329.4	26.5	27.0	-120.47	-2,501.0	977.3	486.4	432.2	54.19	8.976	
12,800.0	10,082.1	13,073.9	10,329.0	27.3	27.7	-120.48	-2,601.0	980.4	486.4	430.8	55.67	8.738	
12,900.0	10,081.6	13,173.9	10,328.5	28.1	28.5	-120.48	-2,700.9	983.5	486.5	429.3	57.16	8.510	
13,000.0	10,081.2	13,273.9	10,328.1	28.9	29.3	-120.48	-2,800.9	986.6	486.5	427.8	58.66	8.293	
13,100.0	10,080.7	13,373.9	10,327.7	29.7	30.1	-120.48	-2,900.8	989.7	486.5	426.3	60.17	8.085	
13,200.0	10,080.2	13,473.9	10,327.2	30.5	30.9	-120.48	-3,000.8	992.7	486.6	424.9	61.70	7.886	
13,300.0	10,079.8	13,573.9	10,326.8	31.3	31.7	-120.48	-3,100.7	995.8	486.6	423.4	63.22	7.696	
13,400.0	10,079.3	13,673.9	10,326.4	32.1	32.5	-120.48	-3,200.7	998.9	486.6	421.9	64.76	7.514	
13,500.0	10,078.8	13,773.9	10,325.9	33.0	33.4	-120.49	-3,300.6	1,002.0	486.7	420.4	66.31	7.340	
13,600.0	10,078.4	13,873.9	10,325.5	33.8	34.2	-120.49	-3,400.6	1,005.1	486.7	418.8	67.86	7.172	
13,700.0	10,077.9	13,973.9	10,325.1	34.6	35.0	-120.49	-3,500.5	1,008.1	486.7	417.3	69.41	7.012	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9730-MWD+IFR1+FDIR					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	10,077.5	14,073.9	10,324.6	35.4	35.8	-120.49	-3,600.5	1,011.2	486.8	415.8	70.98	6.858		
13,900.0	10,077.0	14,173.9	10,324.2	36.3	36.6	-120.49	-3,700.4	1,014.3	486.8	414.2	72.54	6.710		
14,000.0	10,076.5	14,273.9	10,323.8	37.1	37.4	-120.49	-3,800.4	1,017.4	486.8	412.7	74.12	6.568		
14,100.0	10,076.1	14,373.9	10,323.3	37.9	38.3	-120.50	-3,900.3	1,020.4	486.9	411.2	75.69	6.432		
14,200.0	10,075.6	14,473.9	10,322.9	38.8	39.1	-120.50	-4,000.3	1,023.5	486.9	409.6	77.28	6.301		
14,300.0	10,075.1	14,573.9	10,322.5	39.6	39.9	-120.50	-4,100.2	1,026.6	486.9	408.1	78.86	6.174		
14,400.0	10,074.7	14,673.9	10,322.0	40.4	40.8	-120.50	-4,200.2	1,029.7	487.0	406.5	80.45	6.053		
14,500.0	10,074.2	14,773.9	10,321.6	41.3	41.6	-120.50	-4,300.1	1,032.8	487.0	404.9	82.05	5.936		
14,600.0	10,073.8	14,873.9	10,321.2	42.1	42.4	-120.50	-4,400.1	1,035.8	487.0	403.4	83.64	5.823		
14,700.0	10,073.3	14,973.9	10,320.7	43.0	43.2	-120.50	-4,500.0	1,038.9	487.1	401.8	85.25	5.714		
14,800.0	10,072.8	15,073.9	10,320.3	43.8	44.1	-120.51	-4,600.0	1,042.0	487.1	400.2	86.85	5.609		
14,900.0	10,072.4	15,173.9	10,319.9	44.6	44.9	-120.51	-4,699.9	1,045.1	487.1	398.7	88.46	5.507		
15,000.0	10,071.9	15,273.9	10,319.4	45.5	45.7	-120.51	-4,799.9	1,048.2	487.2	397.1	90.07	5.409		
15,100.0	10,071.4	15,373.9	10,319.0	46.3	46.6	-120.51	-4,899.8	1,051.2	487.2	395.5	91.68	5.314		
15,129.8	10,071.3	15,403.7	10,318.9	46.6	46.8	-120.51	-4,929.6	1,052.1	487.2	395.0	92.16	5.287		
15,200.0	10,071.0	15,483.6	10,318.5	47.2	47.5	-120.49	-5,009.5	1,053.8	487.4	394.0	93.38	5.220		
15,238.9	10,070.8	15,529.2	10,318.3	47.5	47.9	-120.49	-5,055.0	1,053.8	487.4	393.4	94.05	5.183		
15,239.1	10,070.8	15,529.4	10,318.3	47.5	47.9	-120.49	-5,055.3	1,053.8	487.4	393.4	94.05	5.182		
15,300.0	10,070.5	15,590.0	10,318.1	48.0	48.4	-120.49	-5,115.9	1,053.4	487.4	392.4	95.03	5.129		
15,400.0	10,070.0	15,690.0	10,317.6	48.8	49.2	-120.50	-5,215.9	1,052.6	487.5	390.8	96.64	5.044		
15,500.0	10,069.6	15,790.0	10,317.2	49.7	50.1	-120.50	-5,315.9	1,051.9	487.5	389.2	98.26	4.961		
15,600.0	10,069.1	15,890.0	10,316.8	50.5	50.9	-120.50	-5,415.9	1,051.1	487.5	387.6	99.87	4.881		
15,700.0	10,068.7	15,990.0	10,316.3	51.4	51.7	-120.51	-5,515.9	1,050.4	487.5	386.0	101.49	4.804		
15,800.0	10,068.2	16,090.0	10,315.9	52.2	52.6	-120.51	-5,615.9	1,049.6	487.5	384.4	103.11	4.728		
15,900.0	10,067.7	16,190.0	10,315.5	53.0	53.4	-120.52	-5,715.9	1,048.9	487.6	382.8	104.73	4.655		
16,000.0	10,067.3	16,290.0	10,315.1	53.9	54.2	-120.52	-5,815.9	1,048.1	487.6	381.2	106.36	4.584		
16,100.0	10,066.8	16,390.0	10,314.6	54.7	55.1	-120.52	-5,915.8	1,047.4	487.6	379.6	107.98	4.515		
16,200.0	10,066.3	16,490.0	10,314.2	55.6	55.9	-120.53	-6,015.8	1,046.6	487.6	378.0	109.61	4.449		
16,300.0	10,065.9	16,590.0	10,313.8	56.4	56.8	-120.53	-6,115.8	1,045.9	487.6	376.4	111.24	4.384		
16,400.0	10,065.4	16,690.0	10,313.3	57.3	57.6	-120.53	-6,215.8	1,045.1	487.6	374.8	112.86	4.321		
16,500.0	10,064.9	16,790.0	10,312.9	58.1	58.4	-120.54	-6,315.8	1,044.4	487.7	373.2	114.50	4.259		
16,600.0	10,064.5	16,890.0	10,312.5	59.0	59.3	-120.54	-6,415.8	1,043.6	487.7	371.5	116.13	4.199		
16,700.0	10,064.0	16,990.0	10,312.1	59.8	60.1	-120.54	-6,515.8	1,042.9	487.7	369.9	117.76	4.141		
16,800.0	10,063.5	17,090.0	10,311.6	60.6	61.0	-120.55	-6,615.8	1,042.1	487.7	368.3	119.40	4.085		
16,900.0	10,063.1	17,190.0	10,311.2	61.5	61.8	-120.55	-6,715.8	1,041.4	487.7	366.7	121.03	4.030		
17,000.0	10,062.6	17,290.0	10,310.8	62.3	62.7	-120.56	-6,815.8	1,040.6	487.7	365.1	122.67	3.976		
17,100.0	10,062.2	17,390.0	10,310.3	63.2	63.5	-120.56	-6,915.8	1,039.9	487.8	363.5	124.31	3.924		
17,200.0	10,061.7	17,490.0	10,309.9	64.0	64.3	-120.56	-7,015.8	1,039.1	487.8	361.8	125.95	3.873		
17,300.0	10,061.2	17,590.0	10,309.5	64.9	65.2	-120.57	-7,115.8	1,038.4	487.8	360.2	127.59	3.823		
17,400.0	10,060.8	17,690.0	10,309.1	65.7	66.0	-120.57	-7,215.8	1,037.6	487.8	358.6	129.23	3.775		
17,500.0	10,060.3	17,790.0	10,308.6	66.6	66.9	-120.57	-7,315.8	1,036.9	487.8	357.0	130.87	3.728		
17,600.0	10,059.8	17,890.0	10,308.2	67.4	67.7	-120.58	-7,415.8	1,036.1	487.9	355.3	132.51	3.682		
17,700.0	10,059.4	17,990.0	10,307.8	68.3	68.6	-120.58	-7,515.8	1,035.4	487.9	353.7	134.15	3.637		
17,800.0	10,058.9	18,090.0	10,307.4	69.1	69.4	-120.59	-7,615.8	1,034.6	487.9	352.1	135.80	3.593		
17,900.0	10,058.4	18,190.0	10,306.9	70.0	70.3	-120.59	-7,715.8	1,033.9	487.9	350.5	137.44	3.550		
18,000.0	10,058.0	18,290.0	10,306.5	70.8	71.1	-120.59	-7,815.8	1,033.1	487.9	348.8	139.09	3.508		
18,100.0	10,057.5	18,390.0	10,306.1	71.7	72.0	-120.60	-7,915.8	1,032.4	487.9	347.2	140.74	3.467		
18,200.0	10,057.0	18,490.0	10,305.6	72.5	72.8	-120.60	-8,015.8	1,031.6	488.0	345.6	142.38	3.427		
18,300.0	10,056.6	18,590.0	10,305.2	73.4	73.7	-120.60	-8,115.8	1,030.9	488.0	343.9	144.03	3.388		
18,400.0	10,056.1	18,690.0	10,304.8	74.2	74.5	-120.61	-8,215.8	1,030.1	488.0	342.3	145.68	3.350		
18,500.0	10,055.7	18,790.0	10,304.4	75.1	75.4	-120.61	-8,315.8	1,029.4	488.0	340.7	147.33	3.312		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-Standard Keeper 104, 9730-MWD+IFR1+FDIR					Rule Assigned:							Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
18,600.0	10,055.2	18,890.0	10,303.9	75.9	76.2	-120.61	-8,415.8	1,028.6	488.0	339.1	148.98	3.276			
18,700.0	10,054.7	18,990.0	10,303.5	76.8	77.0	-120.62	-8,515.7	1,027.9	488.0	337.4	150.63	3.240			
18,800.0	10,054.3	19,090.0	10,303.1	77.6	77.9	-120.62	-8,615.7	1,027.1	488.1	335.8	152.28	3.205			
18,900.0	10,053.8	19,190.0	10,302.6	78.5	78.7	-120.63	-8,715.7	1,026.4	488.1	334.2	153.93	3.171			
19,000.0	10,053.3	19,290.0	10,302.2	79.3	79.6	-120.63	-8,815.7	1,025.6	488.1	332.5	155.58	3.137			
19,100.0	10,052.9	19,390.0	10,301.8	80.2	80.4	-120.63	-8,915.7	1,024.8	488.1	330.9	157.24	3.104			
19,200.0	10,052.4	19,490.0	10,301.4	81.0	81.3	-120.64	-9,015.7	1,024.1	488.1	329.3	158.89	3.072			
19,300.0	10,051.9	19,590.0	10,300.9	81.9	82.1	-120.64	-9,115.7	1,023.3	488.2	327.6	160.54	3.041			
19,400.0	10,051.5	19,690.0	10,300.5	82.7	83.0	-120.64	-9,215.7	1,022.6	488.2	326.0	162.20	3.010			
19,500.0	10,051.0	19,790.0	10,300.1	83.6	83.8	-120.65	-9,315.7	1,021.8	488.2	324.3	163.85	2.979			
19,600.0	10,050.5	19,890.0	10,299.6	84.4	84.7	-120.65	-9,415.7	1,021.1	488.2	322.7	165.51	2.950			
19,700.0	10,050.1	19,990.0	10,299.2	85.3	85.5	-120.66	-9,515.7	1,020.3	488.2	321.1	167.16	2.921			
19,800.0	10,049.6	20,090.0	10,298.8	86.1	86.4	-120.66	-9,615.7	1,019.6	488.2	319.4	168.82	2.892			
19,900.0	10,049.2	20,190.0	10,298.4	87.0	87.2	-120.66	-9,715.7	1,018.8	488.3	317.8	170.47	2.864			
20,000.0	10,048.7	20,290.0	10,297.9	87.8	88.1	-120.67	-9,815.7	1,018.1	488.3	316.2	172.13	2.837			
20,100.0	10,048.2	20,390.0	10,297.5	88.7	88.9	-120.67	-9,915.7	1,017.3	488.3	314.5	173.79	2.810			
20,200.0	10,047.8	20,490.0	10,297.1	89.6	89.8	-120.67	-10,015.7	1,016.6	488.3	312.9	175.44	2.783			
20,300.0	10,047.3	20,590.0	10,296.6	90.4	90.6	-120.68	-10,115.7	1,015.8	488.3	311.2	177.10	2.757			
20,400.0	10,046.8	20,690.0	10,296.2	91.3	91.5	-120.68	-10,215.7	1,015.1	488.4	309.6	178.76	2.732			
20,471.9	10,046.5	20,761.9	10,295.9	91.9	92.1	-120.68	-10,287.6	1,014.6	488.4	308.4	179.95	2.714			
20,476.8	10,046.5	20,767.3	10,295.9	91.9	92.2	-120.68	-10,293.0	1,014.5	488.4	308.3	180.04	2.713			
20,500.0	10,046.4	20,790.7	10,295.8	92.1	92.4	-120.68	-10,316.4	1,014.3	488.4	308.0	180.42	2.707			
20,600.0	10,045.9	20,890.7	10,295.4	93.0	93.2	-120.69	-10,416.4	1,013.4	488.4	306.3	182.08	2.682			
20,700.0	10,045.4	20,990.7	10,294.9	93.8	94.1	-120.69	-10,516.4	1,012.4	488.4	304.7	183.74	2.658			
20,800.0	10,045.0	21,090.7	10,294.5	94.7	94.9	-120.69	-10,616.4	1,011.5	488.4	303.0	185.40	2.634			
20,900.0	10,044.5	21,190.7	10,294.1	95.5	95.8	-120.70	-10,716.4	1,010.6	488.4	301.4	187.06	2.611			
21,000.0	10,044.1	21,290.7	10,293.6	96.4	96.6	-120.70	-10,816.4	1,009.7	488.5	299.7	188.72	2.588			
21,100.0	10,043.6	21,390.7	10,293.2	97.2	97.5	-120.70	-10,916.4	1,008.8	488.5	298.1	190.38	2.566			
21,200.0	10,043.1	21,490.7	10,292.8	98.1	98.3	-120.71	-11,016.4	1,007.8	488.5	296.4	192.04	2.544			
21,300.0	10,042.7	21,590.7	10,292.3	98.9	99.2	-120.71	-11,116.4	1,006.9	488.5	294.8	193.70	2.522			
21,400.0	10,042.2	21,690.7	10,291.9	99.8	100.0	-120.71	-11,216.4	1,006.0	488.5	293.2	195.36	2.501			
21,500.0	10,041.7	21,790.7	10,291.5	100.6	100.9	-120.72	-11,316.4	1,005.1	488.5	291.5	197.02	2.480			
21,600.0	10,041.3	21,890.7	10,291.1	101.5	101.7	-120.72	-11,416.3	1,004.2	488.5	289.9	198.68	2.459			
21,700.0	10,040.8	21,990.7	10,290.6	102.4	102.6	-120.72	-11,516.3	1,003.2	488.6	288.2	200.34	2.439			
21,800.0	10,040.4	22,090.7	10,290.2	103.2	103.4	-120.73	-11,616.3	1,002.3	488.6	286.6	202.00	2.419			
21,900.0	10,039.9	22,190.7	10,289.8	104.1	104.3	-120.73	-11,716.3	1,001.4	488.6	284.9	203.66	2.399			
22,000.0	10,039.4	22,290.7	10,289.3	104.9	105.1	-120.73	-11,816.3	1,000.5	488.6	283.3	205.33	2.380			
22,100.0	10,039.0	22,390.7	10,288.9	105.8	106.0	-120.74	-11,916.3	999.5	488.6	281.6	206.99	2.361			
22,200.0	10,038.5	22,490.7	10,288.5	106.6	106.8	-120.74	-12,016.3	998.6	488.6	280.0	208.65	2.342			
22,300.0	10,038.0	22,590.7	10,288.0	107.5	107.7	-120.74	-12,116.3	997.7	488.7	278.3	210.31	2.323			
22,400.0	10,037.6	22,690.7	10,287.6	108.3	108.6	-120.75	-12,216.3	996.8	488.7	276.7	211.98	2.305			
22,500.0	10,037.1	22,790.7	10,287.2	109.2	109.4	-120.75	-12,316.3	995.9	488.7	275.1	213.64	2.287			
22,600.0	10,036.7	22,890.7	10,286.8	110.0	110.3	-120.75	-12,416.3	994.9	488.7	273.4	215.30	2.270			
22,700.0	10,036.2	22,990.7	10,286.3	110.9	111.1	-120.76	-12,516.3	994.0	488.7	271.8	216.97	2.253			
22,800.0	10,035.7	23,090.7	10,285.9	111.7	112.0	-120.76	-12,616.3	993.1	488.7	270.1	218.63	2.235			
22,900.0	10,035.3	23,190.7	10,285.5	112.6	112.8	-120.76	-12,716.3	992.2	488.8	268.5	220.29	2.219			
23,000.0	10,034.8	23,290.7	10,285.0	113.5	113.7	-120.77	-12,816.3	991.2	488.8	266.8	221.96	2.202			
23,100.0	10,034.3	23,390.7	10,284.6	114.3	114.5	-120.77	-12,916.3	990.3	488.8	265.2	223.62	2.186			
23,200.0	10,033.9	23,490.7	10,284.2	115.2	115.4	-120.77	-13,016.3	989.4	488.8	263.5	225.29	2.170			
23,300.0	10,033.4	23,590.7	10,283.7	116.0	116.2	-120.78	-13,116.3	988.5	488.8	261.9	226.95	2.154			
23,400.0	10,033.0	23,690.7	10,283.3	116.9	117.1	-120.78	-13,216.3	987.6	488.8	260.2	228.62	2.138			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9730-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Measured	Depth	Measured	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
Depth	(usft)	Depth	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
(usft)		(usft)							(usft)	(usft)				
23,500.0	10,032.5	23,790.7	10,282.9	117.7	117.9	-120.78	-13,316.2	986.6	488.9	258.6	230.28	2.123		
23,600.0	10,032.0	23,890.7	10,282.5	118.6	118.8	-120.79	-13,416.2	985.7	488.9	256.9	231.95	2.108		
23,700.0	10,031.6	23,990.7	10,282.0	119.4	119.6	-120.79	-13,516.2	984.8	488.9	255.3	233.61	2.093		
23,800.0	10,031.1	24,090.7	10,281.6	120.3	120.5	-120.79	-13,616.2	983.9	488.9	253.6	235.28	2.078		
23,900.0	10,030.6	24,190.7	10,281.2	121.1	121.4	-120.80	-13,716.2	983.0	488.9	252.0	236.94	2.063		
24,000.0	10,030.2	24,290.7	10,280.7	122.0	122.2	-120.80	-13,816.2	982.0	488.9	250.3	238.61	2.049		
24,100.0	10,029.7	24,390.7	10,280.3	122.9	123.1	-120.80	-13,916.2	981.1	488.9	248.7	240.27	2.035		
24,200.0	10,029.3	24,490.7	10,279.9	123.7	123.9	-120.81	-14,016.2	980.2	489.0	247.0	241.94	2.021		
24,300.0	10,028.8	24,590.7	10,279.4	124.6	124.8	-120.81	-14,116.2	979.3	489.0	245.4	243.61	2.007		
24,400.0	10,028.3	24,690.7	10,279.0	125.4	125.6	-120.81	-14,216.2	978.3	489.0	243.7	245.27	1.994 Advise and Monitor		
24,500.0	10,027.9	24,790.7	10,278.6	126.3	126.5	-120.82	-14,316.2	977.4	489.0	242.1	246.94	1.980 Advise and Monitor		
24,600.0	10,027.4	24,890.7	10,278.2	127.1	127.3	-120.82	-14,416.2	976.5	489.0	240.4	248.60	1.967 Advise and Monitor		
24,700.0	10,026.9	24,990.7	10,277.7	128.0	128.2	-120.82	-14,516.2	975.6	489.0	238.8	250.27	1.954 Advise and Monitor		
24,800.0	10,026.5	25,090.7	10,277.3	128.8	129.0	-120.83	-14,616.2	974.7	489.1	237.1	251.94	1.941 Advise and Monitor		
24,900.0	10,026.0	25,190.7	10,276.9	129.7	129.9	-120.83	-14,716.2	973.7	489.1	235.5	253.60	1.929 Advise and Monitor		
25,000.0	10,025.6	25,290.7	10,276.4	130.6	130.8	-120.83	-14,816.2	972.8	489.1	233.8	255.27	1.916 Advise and Monitor		
25,100.0	10,025.1	25,390.7	10,276.0	131.4	131.6	-120.84	-14,916.2	971.9	489.1	232.2	256.94	1.904 Advise and Monitor		
25,200.0	10,024.6	25,490.7	10,275.6	132.3	132.5	-120.84	-15,016.2	971.0	489.1	230.5	258.60	1.891 Advise and Monitor		
25,300.0	10,024.2	25,590.7	10,275.1	133.1	133.3	-120.84	-15,116.2	970.1	489.1	228.9	260.27	1.879 Advise and Monitor		
25,400.0	10,023.7	25,690.7	10,274.7	134.0	134.2	-120.85	-15,216.2	969.1	489.2	227.2	261.94	1.867 Advise and Monitor		
25,500.0	10,023.2	25,790.7	10,274.3	134.8	135.0	-120.85	-15,316.1	968.2	489.2	225.6	263.61	1.856 Advise and Monitor		
25,551.7	10,023.0	25,842.4	10,274.1	135.3	135.5	-120.85	-15,367.8	967.7	489.2	224.7	264.47	1.850 Advise and Monitor		
25,552.1	10,023.0	25,842.8	10,274.1	135.3	135.5	-120.85	-15,368.2	967.7	489.2	224.7	264.47	1.850 Advise and Monitor, SF		

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9721-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-35.05	44.9	-31.5	54.8				
100.0	100.0	100.0	100.0	3.0	3.0	-35.05	44.9	-31.5	54.8	48.8	6.00	9.140	
200.0	200.0	200.0	200.0	3.0	3.0	-35.05	44.9	-31.5	54.8	48.8	6.01	9.129	
300.0	300.0	300.0	300.0	3.0	3.0	-35.05	44.9	-31.5	54.8	48.8	6.02	9.104	
400.0	400.0	400.0	400.0	3.0	3.0	-35.05	44.9	-31.5	54.8	48.8	6.05	9.066	
500.0	500.0	500.0	500.0	3.1	3.1	-35.05	44.9	-31.5	54.8	48.8	6.08	9.015	
600.0	600.0	600.0	600.0	3.1	3.1	-35.05	44.9	-31.5	54.8	48.7	6.13	8.953	
700.0	700.0	700.0	700.0	3.1	3.1	-35.05	44.9	-31.5	54.8	48.7	6.18	8.879	
800.0	800.0	800.0	800.0	3.2	3.2	-35.05	44.9	-31.5	54.8	48.6	6.24	8.796	
900.0	900.0	900.0	900.0	3.2	3.2	-35.05	44.9	-31.5	54.8	48.5	6.30	8.703	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-35.05	44.9	-31.5	54.8	48.5	6.38	8.601	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-35.05	44.9	-31.5	54.8	48.4	6.46	8.493	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-35.05	44.9	-31.5	54.8	48.3	6.55	8.378	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-35.05	44.9	-31.5	54.8	48.2	6.64	8.257	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-35.05	44.9	-31.5	54.8	48.1	6.74	8.132	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-35.05	44.9	-31.5	54.8	48.0	6.85	8.004	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-35.05	44.9	-31.5	54.8	47.9	6.97	7.873	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-35.05	44.9	-31.5	54.8	47.8	7.09	7.740	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-35.05	44.9	-31.5	54.8	47.6	7.21	7.605	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-35.05	44.9	-31.5	54.8	47.5	7.34	7.470	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-35.05	44.9	-31.5	54.8	47.4	7.48	7.336	CC, ES, SF
2,100.0	2,100.0	2,098.4	2,098.4	4.0	4.0	-36.05	45.5	-33.1	56.3	48.7	7.59	7.411	
2,200.0	2,200.0	2,196.6	2,196.5	4.1	4.1	-38.77	47.1	-37.9	60.6	52.9	7.66	7.904	
2,300.0	2,300.0	2,294.4	2,293.8	4.2	4.1	-42.51	49.9	-45.8	68.0	60.3	7.70	8.830	
2,400.0	2,400.0	2,391.4	2,390.2	4.3	4.2	-46.52	53.8	-56.7	78.7	71.0	7.72	10.201	
2,500.0	2,500.0	2,490.2	2,488.0	4.4	4.2	-50.06	58.3	-69.6	91.6	83.9	7.76	11.814	
2,600.0	2,600.0	2,589.1	2,585.9	4.5	4.3	-110.07	62.9	-82.6	105.4	97.6	7.77	13.568	
2,700.0	2,699.8	2,687.5	2,683.4	4.5	4.3	-114.05	67.4	-95.5	120.8	113.1	7.73	15.620	
2,800.0	2,799.5	2,785.4	2,780.4	4.6	4.4	-118.31	72.0	-108.4	138.4	130.7	7.70	17.973	
2,900.0	2,898.9	2,883.0	2,877.0	4.7	4.5	-122.38	76.5	-121.2	157.5	149.8	7.69	20.487	
3,000.0	2,998.4	2,980.6	2,973.7	4.8	4.5	-125.57	81.0	-134.0	177.2	169.5	7.71	22.978	
3,100.0	3,097.8	3,078.2	3,070.3	4.8	4.6	-128.12	85.5	-146.8	197.4	189.6	7.77	25.418	
3,200.0	3,197.3	3,175.8	3,167.0	4.9	4.7	-130.20	90.0	-159.7	217.9	210.1	7.84	27.789	
3,300.0	3,296.7	3,273.4	3,263.6	5.0	4.8	-131.92	94.5	-172.5	238.6	230.7	7.93	30.082	
3,400.0	3,396.2	3,371.1	3,360.3	5.1	4.9	-133.36	99.0	-185.3	259.5	251.4	8.04	32.291	
3,500.0	3,495.6	3,468.7	3,457.0	5.2	4.9	-134.59	103.5	-198.1	280.5	272.3	8.15	34.413	
3,600.0	3,595.1	3,566.3	3,553.6	5.2	5.0	-135.65	108.0	-210.9	301.6	293.3	8.28	36.446	
3,700.0	3,694.5	3,663.9	3,650.3	5.3	5.1	-136.57	112.5	-223.7	322.8	314.4	8.41	38.391	
3,800.0	3,794.0	3,761.5	3,746.9	5.4	5.2	-137.38	117.0	-236.5	344.1	335.6	8.55	40.249	
3,900.0	3,893.4	3,859.1	3,843.6	5.5	5.3	-138.09	121.5	-249.4	365.4	356.7	8.70	42.022	
4,000.0	3,992.9	3,956.7	3,940.2	5.6	5.4	-138.72	126.0	-262.2	386.8	378.0	8.85	43.712	
4,100.0	4,092.3	4,054.3	4,036.9	5.7	5.5	-139.29	130.6	-275.0	408.2	399.2	9.01	45.322	
4,200.0	4,191.8	4,151.9	4,133.5	5.8	5.6	-139.80	135.1	-287.8	429.7	420.5	9.17	46.854	
4,300.0	4,291.2	4,249.5	4,230.2	5.9	5.7	-140.26	139.6	-300.6	451.2	441.9	9.34	48.312	
4,400.0	4,390.7	4,347.1	4,326.8	6.0	5.8	-140.68	144.1	-313.4	472.7	463.2	9.51	49.699	
4,500.0	4,490.1	4,444.7	4,423.5	6.1	5.9	-141.07	148.6	-326.2	494.2	484.6	9.69	51.017	
4,600.0	4,589.6	4,542.3	4,520.1	6.2	6.0	-141.42	153.1	-339.1	515.8	505.9	9.87	52.271	
4,700.0	4,689.0	4,639.9	4,616.8	6.3	6.1	-141.74	157.6	-351.9	537.4	527.3	10.05	53.462	
4,800.0	4,788.5	4,737.5	4,713.4	6.4	6.2	-142.04	162.1	-364.7	559.0	548.7	10.24	54.595	
4,900.0	4,887.9	4,835.1	4,810.1	6.5	6.3	-142.32	166.6	-377.5	580.6	570.1	10.43	55.671	
5,000.0	4,987.4	4,932.7	4,906.7	6.6	6.4	-142.58	171.1	-390.3	602.2	591.5	10.62	56.694	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9721-MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,086.9	5,030.3	5,003.4	6.7	6.5	-142.81	175.6	-403.1	623.8	613.0	10.82	57.666		
5,200.0	5,186.3	5,127.9	5,100.0	6.8	6.6	-143.04	180.1	-415.9	645.4	634.4	11.02	58.591		
5,300.0	5,285.8	5,225.5	5,196.7	6.9	6.7	-143.25	184.6	-428.7	667.1	655.8	11.22	59.470		
5,400.0	5,385.2	5,323.1	5,293.4	7.1	6.8	-143.44	189.2	-441.6	688.7	677.3	11.42	60.305		
5,500.0	5,484.7	5,420.7	5,390.0	7.2	6.9	-143.62	193.7	-454.4	710.4	698.7	11.63	61.100		
5,600.0	5,584.1	5,518.3	5,486.7	7.3	7.0	-143.80	198.2	-467.2	732.0	720.2	11.83	61.856		
5,700.0	5,683.6	5,615.9	5,583.3	7.4	7.2	-143.96	202.7	-480.0	753.7	741.7	12.04	62.575		
5,800.0	5,783.0	5,713.5	5,680.0	7.5	7.3	-144.11	207.2	-492.8	775.4	763.1	12.26	63.260		
5,900.0	5,882.5	5,811.1	5,776.6	7.6	7.4	-144.26	211.7	-505.6	797.1	784.6	12.47	63.911		
6,000.0	5,981.9	5,908.7	5,873.3	7.7	7.5	-144.40	216.2	-518.4	818.7	806.1	12.69	64.531		
6,100.0	6,081.4	6,006.3	5,969.9	7.8	7.6	-144.53	220.7	-531.3	840.4	827.5	12.91	65.121		
6,200.0	6,180.8	6,103.9	6,066.6	7.9	7.7	-144.65	225.2	-544.1	862.1	849.0	13.13	65.683		
6,300.0	6,280.3	6,201.5	6,163.2	8.1	7.8	-144.77	229.7	-556.9	883.8	870.5	13.35	66.219		
6,400.0	6,379.7	6,299.1	6,259.9	8.2	8.0	-144.88	234.2	-569.7	905.5	891.9	13.57	66.729		
6,500.0	6,479.2	6,396.7	6,356.5	8.3	8.1	-144.99	238.7	-582.5	927.2	913.4	13.79	67.215		
6,600.0	6,578.6	6,494.3	6,453.2	8.4	8.2	-145.09	243.2	-595.3	948.9	934.9	14.02	67.678		
6,700.0	6,678.1	6,591.9	6,549.8	8.5	8.3	-145.19	247.8	-608.1	970.6	956.4	14.25	68.119		
6,800.0	6,777.5	6,689.5	6,646.5	8.6	8.4	-145.28	252.3	-621.0	992.3	977.9	14.48	68.540		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9626-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-53.93	44.8	-61.5	76.1				
100.0	100.0	99.9	99.9	3.0	3.0	-53.93	44.8	-61.5	76.1	70.1	6.00	12.680	
200.0	200.0	199.9	199.9	3.0	3.0	-53.93	44.8	-61.5	76.1	70.1	6.01	12.669	
300.0	300.0	299.9	299.9	3.0	3.0	-53.93	44.8	-61.5	76.1	70.1	6.02	12.645	
400.0	400.0	399.9	399.9	3.0	3.0	-53.93	44.8	-61.5	76.1	70.1	6.03	12.608	
500.0	500.0	499.9	499.9	3.1	3.1	-53.93	44.8	-61.5	76.1	70.0	6.06	12.559	
600.0	600.0	599.9	599.9	3.1	3.1	-53.93	44.8	-61.5	76.1	70.0	6.09	12.498	
700.0	700.0	699.9	699.9	3.1	3.1	-53.93	44.8	-61.5	76.1	70.0	6.12	12.426	
800.0	800.0	799.9	799.9	3.2	3.2	-53.93	44.8	-61.5	76.1	69.9	6.16	12.342	
900.0	900.0	899.9	899.9	3.2	3.2	-53.93	44.8	-61.5	76.1	69.9	6.21	12.249	
1,000.0	1,000.0	999.9	999.9	3.2	3.2	-53.93	44.8	-61.5	76.1	69.8	6.26	12.147	
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	-53.93	44.8	-61.5	76.1	69.8	6.32	12.036	
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	-53.93	44.8	-61.5	76.1	69.7	6.38	11.917	
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	-53.93	44.8	-61.5	76.1	69.6	6.45	11.791	
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	-53.93	44.8	-61.5	76.1	69.6	6.53	11.659	
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	-53.93	44.8	-61.5	76.1	69.5	6.60	11.521	
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	-53.93	44.8	-61.5	76.1	69.4	6.69	11.379	
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	-53.93	44.8	-61.5	76.1	69.3	6.77	11.233	
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	-53.93	44.8	-61.5	76.1	69.2	6.86	11.084	
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	-53.93	44.8	-61.5	76.1	69.1	6.96	10.932	
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	-53.93	44.8	-61.5	76.1	69.0	7.06	10.779 CC, ES, SF	
2,100.0	2,100.0	2,097.5	2,097.5	4.0	4.0	-54.42	45.2	-63.1	77.6	70.5	7.15	10.855	
2,200.0	2,200.0	2,194.8	2,194.7	4.1	4.0	-55.77	46.2	-68.0	82.4	75.1	7.23	11.390	
2,300.0	2,300.0	2,291.8	2,291.3	4.2	4.1	-57.71	48.0	-76.0	90.3	83.0	7.29	12.385	
2,400.0	2,400.0	2,388.0	2,386.8	4.3	4.1	-59.91	50.5	-87.1	101.5	94.2	7.34	13.830	
2,500.0	2,500.0	2,483.4	2,481.1	4.4	4.2	-62.09	53.6	-101.2	116.1	108.7	7.39	15.712	
2,600.0	2,600.0	2,581.0	2,577.2	4.5	4.2	-121.10	57.3	-117.7	133.7	126.3	7.42	18.028	
2,700.0	2,699.8	2,678.7	2,673.4	4.5	4.3	-123.88	61.0	-134.3	153.6	146.1	7.43	20.672	
2,800.0	2,799.5	2,775.7	2,769.0	4.6	4.4	-126.84	64.6	-150.7	175.8	168.3	7.45	23.608	
2,900.0	2,898.9	2,872.4	2,864.2	4.7	4.4	-129.82	68.2	-167.1	199.5	192.0	7.48	26.659	
3,000.0	2,998.4	2,969.1	2,959.4	4.8	4.5	-132.16	71.9	-183.5	223.7	216.1	7.55	29.634	
3,100.0	3,097.8	3,065.8	3,054.6	4.8	4.6	-134.05	75.5	-199.9	248.1	240.5	7.63	32.515	
3,200.0	3,197.3	3,162.4	3,149.8	4.9	4.6	-135.60	79.2	-216.3	272.7	265.0	7.73	35.293	
3,300.0	3,296.7	3,259.1	3,245.0	5.0	4.7	-136.90	82.8	-232.7	297.5	289.7	7.84	37.964	
3,400.0	3,396.2	3,355.8	3,340.3	5.1	4.8	-137.99	86.4	-249.1	322.4	314.5	7.96	40.525	
3,500.0	3,495.6	3,452.5	3,435.5	5.2	4.9	-138.93	90.1	-265.5	347.5	339.4	8.09	42.975	
3,600.0	3,595.1	3,549.1	3,530.7	5.2	4.9	-139.74	93.7	-281.8	372.5	364.3	8.22	45.315	
3,700.0	3,694.5	3,645.8	3,625.9	5.3	5.0	-140.45	97.3	-298.2	397.7	389.3	8.36	47.547	
3,800.0	3,794.0	3,742.5	3,721.1	5.4	5.1	-141.07	101.0	-314.6	422.9	414.4	8.51	49.673	
3,900.0	3,893.4	3,839.2	3,816.3	5.5	5.2	-141.63	104.6	-331.0	448.1	439.5	8.67	51.698	
4,000.0	3,992.9	3,935.8	3,911.5	5.6	5.3	-142.13	108.2	-347.4	473.4	464.6	8.83	53.623	
4,100.0	4,092.3	4,032.5	4,006.7	5.7	5.4	-142.57	111.9	-363.8	498.7	489.7	8.99	55.453	
4,200.0	4,191.8	4,129.2	4,101.9	5.8	5.5	-142.97	115.5	-380.2	524.0	514.9	9.16	57.191	
4,300.0	4,291.2	4,225.9	4,197.1	5.9	5.6	-143.34	119.2	-396.6	549.4	540.1	9.34	58.842	
4,400.0	4,390.7	4,322.5	4,292.3	6.0	5.7	-143.67	122.8	-413.0	574.8	565.3	9.51	60.410	
4,500.0	4,490.1	4,419.2	4,387.5	6.1	5.8	-143.98	126.4	-429.3	600.2	590.5	9.70	61.897	
4,600.0	4,589.6	4,515.9	4,482.7	6.2	5.9	-144.26	130.1	-445.7	625.6	615.7	9.88	63.309	
4,700.0	4,689.0	4,612.6	4,577.9	6.3	6.0	-144.52	133.7	-462.1	651.0	640.9	10.07	64.649	
4,800.0	4,788.5	4,709.3	4,673.2	6.4	6.1	-144.76	137.3	-478.5	676.4	666.1	10.26	65.920	
4,900.0	4,887.9	4,805.9	4,768.4	6.5	6.2	-144.98	141.0	-494.9	701.8	691.4	10.46	67.126	
5,000.0	4,987.4	4,902.6	4,863.6	6.6	6.3	-145.18	144.6	-511.3	727.3	716.6	10.65	68.270	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9626-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
5,100.0	5,086.9	4,999.3	4,958.8	6.7	6.4	-145.38	148.3	-527.7	752.7	741.9	10.85	69.356	
5,200.0	5,186.3	5,096.0	5,054.0	6.8	6.6	-145.56	151.9	-544.1	778.2	767.1	11.06	70.387	
5,300.0	5,285.8	5,192.6	5,149.2	6.9	6.7	-145.72	155.5	-560.5	803.7	792.4	11.26	71.365	
5,400.0	5,385.2	5,289.3	5,244.4	7.1	6.8	-145.88	159.2	-576.8	829.1	817.7	11.47	72.294	
5,500.0	5,484.7	5,386.0	5,339.6	7.2	6.9	-146.03	162.8	-593.2	854.6	843.0	11.68	73.175	
5,600.0	5,584.1	5,482.7	5,434.8	7.3	7.0	-146.17	166.4	-609.6	880.1	868.2	11.89	74.013	
5,700.0	5,683.6	5,579.3	5,530.0	7.4	7.1	-146.30	170.1	-626.0	905.6	893.5	12.11	74.808	
5,800.0	5,783.0	5,676.0	5,625.2	7.5	7.3	-146.43	173.7	-642.4	931.1	918.8	12.32	75.564	
5,900.0	5,882.5	5,772.7	5,720.4	7.6	7.4	-146.55	177.4	-658.8	956.6	944.1	12.54	76.281	
6,000.0	5,981.9	5,869.4	5,815.6	7.7	7.5	-146.66	181.0	-675.2	982.1	969.3	12.76	76.964	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #711H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9714-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.00	0.0	-30.1	30.1					
100.0	100.0	99.9	99.9	3.0	3.0	-90.00	0.0	-30.1	30.1	24.1	6.00	5.016		
200.0	200.0	199.9	199.9	3.0	3.0	-90.00	0.0	-30.1	30.1	24.1	6.00	5.014		
300.0	300.0	299.9	299.9	3.0	3.0	-90.00	0.0	-30.1	30.1	24.1	6.01	5.009		
400.0	400.0	399.9	399.9	3.0	3.0	-90.00	0.0	-30.1	30.1	24.1	6.02	5.001		
500.0	500.0	499.9	499.9	3.1	3.1	-90.00	0.0	-30.1	30.1	24.1	6.03	4.991		
600.0	600.0	599.9	599.9	3.1	3.1	-90.00	0.0	-30.1	30.1	24.1	6.05	4.978		
700.0	700.0	699.9	699.9	3.1	3.1	-90.00	0.0	-30.1	30.1	24.0	6.07	4.962		
800.0	800.0	799.9	799.9	3.2	3.2	-90.00	0.0	-30.1	30.1	24.0	6.09	4.944		
900.0	900.0	899.9	899.9	3.2	3.2	-90.00	0.0	-30.1	30.1	24.0	6.11	4.924		
1,000.0	1,000.0	999.9	999.9	3.2	3.2	-90.00	0.0	-30.1	30.1	24.0	6.14	4.901		
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	-90.00	0.0	-30.1	30.1	23.9	6.17	4.877		
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	-90.00	0.0	-30.1	30.1	23.9	6.21	4.850		
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	-90.00	0.0	-30.1	30.1	23.9	6.24	4.821		
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	-90.00	0.0	-30.1	30.1	23.8	6.28	4.790		
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	-90.00	0.0	-30.1	30.1	23.8	6.33	4.758		
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	-90.00	0.0	-30.1	30.1	23.7	6.37	4.723		
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	-90.00	0.0	-30.1	30.1	23.7	6.42	4.688		
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	-90.00	0.0	-30.1	30.1	23.6	6.47	4.651		
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	-90.00	0.0	-30.1	30.1	23.6	6.53	4.613		
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	-90.00	0.0	-30.1	30.1	23.5	6.58	4.573		
2,100.0	2,100.0	2,099.9	2,099.9	4.0	4.0	-90.00	0.0	-30.1	30.1	23.5	6.64	4.533		
2,200.0	2,200.0	2,199.9	2,199.9	4.1	4.1	-90.00	0.0	-30.1	30.1	23.4	6.70	4.492		
2,300.0	2,300.0	2,299.9	2,299.9	4.2	4.2	-90.00	0.0	-30.1	30.1	23.3	6.76	4.450		
2,400.0	2,400.0	2,399.9	2,399.9	4.3	4.3	-90.00	0.0	-30.1	30.1	23.3	6.83	4.407		
2,500.0	2,500.0	2,499.9	2,499.9	4.4	4.4	-90.00	0.0	-30.1	30.1	23.2	6.90	4.364 CC, ES		
2,600.0	2,600.0	2,600.1	2,600.1	4.5	4.5	-145.34	1.7	-29.7	31.1	24.2	6.97	4.467		
2,700.0	2,699.8	2,700.3	2,700.1	4.5	4.6	-141.74	6.8	-28.3	34.3	27.3	7.05	4.866		
2,800.0	2,799.5	2,800.2	2,799.7	4.6	4.7	-137.68	14.8	-26.3	39.9	32.7	7.14	5.578		
2,900.0	2,898.9	2,900.0	2,899.1	4.7	4.8	-135.67	23.2	-24.1	46.8	39.5	7.24	6.463		
3,000.0	2,998.4	2,999.7	2,998.4	4.8	4.9	-134.18	31.6	-21.9	53.7	46.4	7.33	7.332		
3,100.0	3,097.8	3,099.5	3,097.8	4.8	5.0	-133.03	40.0	-19.7	60.7	53.3	7.42	8.183		
3,200.0	3,197.3	3,199.2	3,197.2	4.9	5.1	-132.12	48.4	-17.5	67.7	60.2	7.51	9.014		
3,300.0	3,296.7	3,299.0	3,296.5	5.0	5.2	-131.38	56.9	-15.3	74.7	67.1	7.60	9.825		
3,400.0	3,396.2	3,398.7	3,395.9	5.1	5.3	-130.76	65.3	-13.1	81.7	74.0	7.70	10.615		
3,500.0	3,495.6	3,498.5	3,495.3	5.2	5.4	-130.25	73.7	-10.9	88.8	81.0	7.80	11.384		
3,600.0	3,595.1	3,598.2	3,594.7	5.2	5.5	-129.81	82.1	-8.7	95.8	87.9	7.90	12.130		
3,700.0	3,694.5	3,698.0	3,694.0	5.3	5.6	-129.43	90.5	-6.5	102.8	94.8	8.00	12.853		
3,800.0	3,794.0	3,797.7	3,793.4	5.4	5.7	-129.10	98.9	-4.3	109.9	101.8	8.11	13.555		
3,900.0	3,893.4	3,897.5	3,892.8	5.5	5.8	-128.81	107.3	-2.2	116.9	108.7	8.22	14.233		
4,000.0	3,992.9	3,997.2	3,992.1	5.6	5.9	-128.55	115.7	0.0	124.0	115.7	8.33	14.889		
4,100.0	4,092.3	4,096.9	4,091.5	5.7	6.0	-128.32	124.2	2.2	131.0	122.6	8.44	15.522		
4,200.0	4,191.8	4,196.7	4,190.9	5.8	6.1	-128.11	132.6	4.4	138.1	129.5	8.56	16.134		
4,300.0	4,291.2	4,296.4	4,290.2	5.9	6.2	-127.92	141.0	6.6	145.2	136.5	8.68	16.723		
4,400.0	4,390.7	4,396.2	4,389.6	6.0	6.4	-127.75	149.4	8.8	152.2	143.4	8.80	17.290		
4,500.0	4,490.1	4,495.9	4,489.0	6.1	6.5	-127.60	157.8	11.0	159.3	150.3	8.93	17.836		
4,600.0	4,589.6	4,595.7	4,588.4	6.2	6.6	-127.46	166.2	13.2	166.3	157.3	9.06	18.361		
4,700.0	4,689.0	4,695.4	4,687.7	6.3	6.7	-127.33	174.6	15.4	173.4	164.2	9.19	18.865		
4,800.0	4,788.5	4,795.2	4,787.1	6.4	6.8	-127.21	183.1	17.6	180.5	171.1	9.33	19.349		
4,900.0	4,887.9	4,894.9	4,886.5	6.5	6.9	-127.10	191.5	19.7	187.5	178.1	9.46	19.814		
5,000.0	4,987.4	4,994.7	4,985.8	6.6	7.0	-127.00	199.9	21.9	194.6	185.0	9.60	20.260		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #711H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9714-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
5,100.0	5,086.9	5,094.4	5,085.2	6.7	7.2	-126.90	208.3	24.1	201.7	191.9	9.75	20.687		
5,200.0	5,186.3	5,194.2	5,184.6	6.8	7.3	-126.81	216.7	26.3	208.7	198.8	9.89	21.096		
5,300.0	5,285.8	5,293.9	5,283.9	6.9	7.4	-126.73	225.1	28.5	215.8	205.7	10.04	21.487		
5,400.0	5,385.2	5,393.7	5,383.3	7.1	7.5	-126.65	233.5	30.7	222.9	212.7	10.19	21.862		
5,500.0	5,484.7	5,493.4	5,482.7	7.2	7.6	-126.58	241.9	32.9	229.9	219.6	10.35	22.220		
5,600.0	5,584.1	5,593.2	5,582.1	7.3	7.7	-126.51	250.4	35.1	237.0	226.5	10.50	22.562		
5,700.0	5,683.6	5,692.9	5,681.4	7.4	7.9	-126.44	258.8	37.3	244.1	233.4	10.66	22.889		
5,800.0	5,783.0	5,792.7	5,780.8	7.5	8.0	-126.38	267.2	39.5	251.1	240.3	10.82	23.201		
5,900.0	5,882.5	5,892.4	5,880.2	7.6	8.1	-126.32	275.6	41.6	258.2	247.2	10.99	23.499		
6,000.0	5,981.9	5,992.2	5,979.5	7.7	8.2	-126.27	284.0	43.8	265.3	254.1	11.15	23.784		
6,100.0	6,081.4	6,091.9	6,078.9	7.8	8.3	-126.22	292.4	46.0	272.3	261.0	11.32	24.055		
6,200.0	6,180.8	6,192.1	6,178.7	7.9	8.4	-126.29	300.3	48.1	279.3	267.8	11.49	24.315		
6,300.0	6,280.3	6,292.3	6,278.7	8.1	8.6	-126.70	306.5	49.7	286.2	274.5	11.65	24.567		
6,400.0	6,379.7	6,392.4	6,378.8	8.2	8.7	-127.44	311.0	50.9	292.9	281.1	11.80	24.818		
6,500.0	6,479.2	6,492.4	6,478.7	8.3	8.8	-128.48	313.8	51.6	299.6	287.6	11.95	25.068		
6,600.0	6,578.6	6,592.2	6,578.5	8.4	8.9	-129.79	315.0	51.9	306.2	294.1	12.11	25.297		
6,700.0	6,678.1	6,691.7	6,678.0	8.5	9.1	-131.25	315.0	51.9	313.1	300.8	12.27	25.509		
6,800.0	6,777.5	6,791.2	6,777.4	8.6	9.2	-132.65	315.0	51.9	320.1	307.6	12.45	25.713		
6,900.0	6,877.0	6,890.6	6,876.9	8.8	9.3	-134.00	315.0	51.9	327.3	314.6	12.63	25.912		
7,000.0	6,976.4	6,990.1	6,976.3	8.9	9.4	-135.28	315.0	51.9	334.6	321.8	12.82	26.105		
7,100.0	7,075.9	7,089.5	7,075.8	9.0	9.5	-136.51	315.0	51.9	342.1	329.1	13.01	26.293		
7,200.0	7,175.3	7,189.0	7,175.2	9.1	9.7	-137.68	315.0	51.9	349.8	336.6	13.21	26.477		
7,300.0	7,274.8	7,288.4	7,274.7	9.2	9.8	-138.81	315.0	51.9	357.6	344.2	13.42	26.656		
7,400.0	7,374.3	7,387.9	7,374.2	9.4	9.9	-139.88	315.0	51.9	365.6	352.0	13.62	26.832		
7,500.0	7,473.7	7,487.3	7,473.6	9.5	10.0	-140.92	315.0	51.9	373.7	359.8	13.84	27.005		
7,600.0	7,573.2	7,586.8	7,573.1	9.6	10.2	-141.90	315.0	51.9	381.8	367.8	14.05	27.174		
7,700.0	7,672.6	7,686.2	7,672.5	9.7	10.3	-142.85	315.0	51.9	390.1	375.9	14.27	27.341		
7,751.9	7,724.3	7,737.9	7,724.2	9.8	10.4	-143.32	315.0	51.9	394.5	380.1	14.38	27.426		
7,800.0	7,772.1	7,785.7	7,772.0	9.8	10.4	-143.76	315.0	51.9	398.4	383.9	14.49	27.496		
7,900.0	7,871.7	7,885.3	7,871.6	10.0	10.5	-144.53	315.0	51.9	405.5	390.8	14.70	27.584		
8,000.0	7,971.4	7,985.1	7,971.3	10.1	10.7	-145.13	315.0	51.9	411.2	396.3	14.90	27.596		
8,100.0	8,071.3	8,084.9	8,071.2	10.2	10.8	-145.57	315.0	51.9	415.5	400.5	15.09	27.539		
8,200.0	8,171.2	8,184.9	8,171.1	10.3	10.9	-145.86	315.0	51.9	418.5	403.2	15.27	27.413		
8,300.0	8,271.2	8,284.9	8,271.1	10.4	11.0	-146.00	315.0	51.9	419.9	404.5	15.43	27.210		
8,351.9	8,323.2	8,336.8	8,323.1	10.5	11.1	-89.32	315.0	51.9	420.1	404.6	15.50	27.101		
8,400.0	8,371.2	8,384.9	8,371.1	10.5	11.2	-89.32	315.0	51.9	420.1	404.6	15.55	27.014		
8,500.0	8,471.2	8,484.9	8,471.1	10.6	11.3	-89.32	315.0	51.9	420.1	404.5	15.66	26.833		
8,600.0	8,571.2	8,584.9	8,571.1	10.8	11.4	-89.32	315.0	51.9	420.1	404.4	15.76	26.654		
8,700.0	8,671.2	8,684.9	8,671.1	10.9	11.5	-89.32	315.0	51.9	420.1	404.3	15.87	26.476		
8,800.0	8,771.2	8,784.9	8,771.1	11.0	11.7	-89.32	315.0	51.9	420.1	404.2	15.97	26.300		
8,900.0	8,871.2	8,884.9	8,871.1	11.1	11.8	-89.32	315.0	51.9	420.1	404.0	16.08	26.126		
9,000.0	8,971.2	8,984.9	8,971.1	11.2	11.9	-89.32	315.0	51.9	420.1	403.9	16.19	25.953		
9,100.0	9,071.2	9,084.9	9,071.1	11.3	12.0	-89.32	315.0	51.9	420.1	403.8	16.30	25.781		
9,200.0	9,171.2	9,184.9	9,171.1	11.4	12.2	-89.32	315.0	51.9	420.1	403.7	16.40	25.612		
9,300.0	9,271.2	9,284.9	9,271.1	11.5	12.3	-89.32	315.0	51.9	420.1	403.6	16.51	25.443		
9,400.0	9,371.2	9,384.9	9,371.1	11.6	12.4	-89.32	315.0	51.9	420.1	403.5	16.62	25.276		
9,500.0	9,471.2	9,484.9	9,471.1	11.8	12.6	-89.32	315.0	51.9	420.1	403.4	16.73	25.111		
9,548.8	9,520.0	9,533.6	9,519.9	11.8	12.6	-89.32	315.0	51.9	420.1	403.3	16.78	25.031		
9,550.0	9,521.2	9,534.9	9,521.1	11.8	12.6	92.43	315.0	51.9	420.1	403.3	16.79	25.029		
9,600.0	9,571.2	9,584.8	9,571.1	11.8	12.7	92.73	315.0	51.9	420.2	403.4	16.79	25.024		
9,650.0	9,620.7	9,634.3	9,620.6	11.8	12.7	93.59	315.0	51.9	420.6	403.8	16.76	25.094		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9714-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.0	9,669.5	9,683.1	9,669.4	11.8	12.8	94.95	315.0	51.9	421.4	404.7	16.70	25.238	
9,750.0	9,717.1	9,730.8	9,717.0	11.9	12.8	96.74	315.0	51.9	423.1	406.4	16.61	25.463	
9,800.0	9,763.3	9,778.8	9,765.0	11.9	12.9	98.91	314.8	51.9	425.9	409.3	16.54	25.753	
9,850.0	9,807.5	9,832.3	9,818.4	11.9	12.9	101.36	310.9	52.0	429.7	413.1	16.52	26.003	
9,900.0	9,849.6	9,888.2	9,873.5	11.9	12.9	103.75	301.6	52.3	434.3	417.6	16.62	26.122	
9,950.0	9,889.2	9,946.9	9,930.0	12.0	12.9	106.07	286.0	52.8	439.5	422.6	16.87	26.045	
10,000.0	9,926.0	10,008.5	9,987.4	12.0	12.9	108.31	263.6	53.5	445.2	427.9	17.31	25.716	
10,050.0	9,959.7	10,073.2	10,044.7	12.1	13.0	110.42	233.5	54.4	451.2	433.2	17.97	25.110	
10,100.0	9,990.0	10,141.3	10,100.9	12.2	13.1	112.39	195.1	55.6	457.2	438.3	18.84	24.262	
10,150.0	10,016.8	10,212.8	10,154.5	12.2	13.1	114.17	148.0	57.0	462.9	443.0	19.92	23.239	
10,200.0	10,039.8	10,267.6	10,203.9	12.3	13.2	115.72	91.9	58.7	468.2	447.0	21.15	22.138	
10,250.0	10,058.8	10,365.5	10,247.1	12.4	13.3	117.01	27.2	60.7	472.6	450.2	22.45	21.053	
10,300.0	10,073.8	10,446.1	10,282.2	12.4	13.4	117.97	-45.2	62.9	476.0	452.3	23.73	20.060	
10,350.0	10,084.5	10,528.5	10,307.2	12.5	13.4	118.58	-123.7	65.3	478.2	453.3	24.90	19.206	
10,400.0	10,090.9	10,612.1	10,320.7	12.6	13.5	118.81	-206.0	67.8	479.1	453.2	25.87	18.515	
10,451.4	10,093.0	10,685.4	10,323.0	12.6	13.5	118.73	-279.2	70.1	478.7	452.2	26.48	18.077	
10,500.0	10,092.7	10,734.0	10,322.7	12.7	13.5	118.73	-327.8	71.6	478.7	451.9	26.80	17.861	
10,600.0	10,092.3	10,834.0	10,322.3	12.9	13.5	118.73	-427.7	74.6	478.7	451.2	27.52	17.392	
10,700.0	10,091.8	10,934.0	10,321.8	13.2	13.6	118.73	-527.7	77.7	478.7	450.4	28.33	16.897	
10,800.0	10,091.3	11,034.0	10,321.3	13.5	13.6	118.73	-627.6	80.7	478.7	449.5	29.21	16.387	
10,900.0	10,090.9	11,134.0	10,320.9	13.9	13.7	118.73	-727.6	83.8	478.7	448.5	30.16	15.871	
11,000.0	10,090.4	11,234.0	10,320.4	14.3	13.8	118.73	-827.6	86.8	478.7	447.5	31.17	15.355	
11,100.0	10,089.9	11,334.0	10,320.0	14.9	14.1	118.73	-927.5	89.9	478.7	446.4	32.24	14.845	
11,200.0	10,089.5	11,434.0	10,319.5	15.4	14.6	118.73	-1,027.5	92.9	478.7	445.3	33.37	14.346	
11,300.0	10,089.0	11,534.0	10,319.0	16.1	15.2	118.73	-1,127.4	96.0	478.7	444.1	34.53	13.861	
11,400.0	10,088.6	11,634.0	10,318.6	16.7	15.9	118.73	-1,227.4	99.1	478.7	442.9	35.74	13.392	
11,500.0	10,088.1	11,734.0	10,318.1	17.4	16.6	118.73	-1,327.3	102.1	478.7	441.7	36.99	12.940	
11,600.0	10,087.6	11,834.0	10,317.6	18.1	17.3	118.73	-1,427.3	105.2	478.7	440.4	38.27	12.507	
11,700.0	10,087.2	11,934.0	10,317.2	18.8	18.1	118.73	-1,527.2	108.2	478.7	439.1	39.58	12.093	
11,800.0	10,086.7	12,034.0	10,316.7	19.5	18.9	118.73	-1,627.2	111.3	478.7	437.8	40.92	11.697	
11,900.0	10,086.2	12,134.0	10,316.2	20.2	19.6	118.73	-1,727.1	114.3	478.7	436.4	42.29	11.319	
12,000.0	10,085.8	12,234.0	10,315.8	21.0	20.4	118.73	-1,827.1	117.4	478.7	435.0	43.68	10.959	
12,100.0	10,085.3	12,334.0	10,315.3	21.7	21.2	118.73	-1,927.0	120.5	478.7	433.6	45.09	10.617	
12,200.0	10,084.9	12,434.0	10,314.8	22.5	22.0	118.73	-2,027.0	123.5	478.7	432.2	46.51	10.291	
12,300.0	10,084.4	12,534.0	10,314.4	23.3	22.8	118.73	-2,126.9	126.6	478.7	430.7	47.96	9.981	
12,400.0	10,083.9	12,634.0	10,313.9	24.1	23.6	118.73	-2,226.9	129.6	478.7	429.3	49.42	9.686	
12,500.0	10,083.5	12,734.0	10,313.4	24.9	24.4	118.73	-2,326.8	132.7	478.7	427.8	50.89	9.406	
12,600.0	10,083.0	12,834.0	10,313.0	25.7	25.3	118.73	-2,426.8	135.7	478.7	426.3	52.38	9.139	
12,700.0	10,082.5	12,934.0	10,312.5	26.5	26.1	118.73	-2,526.7	138.8	478.7	424.8	53.88	8.884	
12,800.0	10,082.1	13,034.0	10,312.1	27.3	26.9	118.73	-2,626.7	141.8	478.7	423.3	55.39	8.642	
12,900.0	10,081.6	13,134.0	10,311.6	28.1	27.7	118.73	-2,726.6	144.9	478.7	421.8	56.91	8.411	
13,000.0	10,081.2	13,234.0	10,311.1	28.9	28.5	118.73	-2,826.6	148.0	478.7	420.2	58.44	8.191	
13,100.0	10,080.7	13,334.0	10,310.7	29.7	29.4	118.73	-2,926.5	151.0	478.7	418.7	59.98	7.981	
13,200.0	10,080.2	13,434.0	10,310.2	30.5	30.2	118.73	-3,026.5	154.1	478.7	417.1	61.52	7.780	
13,300.0	10,079.8	13,534.0	10,309.7	31.3	31.0	118.73	-3,126.5	157.1	478.7	415.6	63.08	7.588	
13,400.0	10,079.3	13,634.0	10,309.3	32.1	31.9	118.73	-3,226.4	160.2	478.7	414.0	64.64	7.405	
13,500.0	10,078.8	13,734.0	10,308.8	33.0	32.7	118.73	-3,326.4	163.2	478.7	412.5	66.21	7.230	
13,600.0	10,078.4	13,834.0	10,308.3	33.8	33.5	118.73	-3,426.3	166.3	478.7	410.9	67.78	7.062	
13,700.0	10,077.9	13,934.0	10,307.9	34.6	34.4	118.73	-3,526.3	169.4	478.7	409.3	69.36	6.901	
13,800.0	10,077.5	14,034.0	10,307.4	35.4	35.2	118.73	-3,626.2	172.4	478.7	407.7	70.94	6.747	
13,900.0	10,077.0	14,134.0	10,306.9	36.3	36.0	118.73	-3,726.2	175.5	478.7	406.1	72.53	6.600	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #711H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9714-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	10,076.5	14,234.0	10,306.5	37.1	36.9	118.73	-3,826.1	178.5	478.7	404.5	74.12	6.458		
14,100.0	10,076.1	14,334.0	10,306.0	37.9	37.7	118.73	-3,926.1	181.6	478.7	402.9	75.72	6.321		
14,200.0	10,075.6	14,434.0	10,305.5	38.8	38.6	118.73	-4,026.0	184.6	478.7	401.3	77.32	6.191		
14,300.0	10,075.1	14,534.0	10,305.1	39.6	39.4	118.73	-4,126.0	187.7	478.7	399.7	78.93	6.065		
14,400.0	10,074.7	14,634.0	10,304.6	40.4	40.3	118.72	-4,225.9	190.7	478.7	398.1	80.53	5.943		
14,500.0	10,074.2	14,734.0	10,304.2	41.3	41.1	118.72	-4,325.9	193.8	478.7	396.5	82.15	5.827		
14,600.0	10,073.8	14,834.0	10,303.7	42.1	41.9	118.72	-4,425.8	196.9	478.6	394.9	83.76	5.714		
14,700.0	10,073.3	14,934.0	10,303.2	43.0	42.8	118.72	-4,525.8	199.9	478.6	393.3	85.38	5.606		
14,800.0	10,072.8	15,034.0	10,302.8	43.8	43.6	118.72	-4,625.7	203.0	478.6	391.6	87.00	5.502		
14,900.0	10,072.4	15,134.0	10,302.3	44.6	44.5	118.72	-4,725.7	206.0	478.6	390.0	88.62	5.401		
15,000.0	10,071.9	15,234.0	10,301.8	45.5	45.3	118.72	-4,825.6	209.1	478.6	388.4	90.25	5.304		
15,100.0	10,071.4	15,334.0	10,301.4	46.3	46.2	118.72	-4,925.6	212.1	478.6	386.8	91.88	5.210		
15,113.4	10,071.4	15,347.4	10,301.3	46.4	46.3	118.72	-4,939.0	212.6	478.6	386.6	92.09	5.197		
15,129.8	10,071.3	15,361.8	10,301.2	46.6	46.4	118.72	-4,953.4	213.0	478.7	386.3	92.33	5.184		
15,200.0	10,071.0	15,423.0	10,301.0	47.2	46.9	118.71	-5,014.6	213.9	478.9	385.6	93.32	5.132		
15,238.9	10,070.8	15,457.1	10,300.8	47.5	47.2	118.72	-5,048.7	213.8	478.9	385.0	93.86	5.102		
15,259.5	10,070.7	15,477.4	10,300.7	47.7	47.4	118.72	-5,069.0	213.7	478.9	384.7	94.19	5.085		
15,300.0	10,070.5	15,518.0	10,300.5	48.0	47.7	118.72	-5,109.6	213.4	478.9	384.1	94.85	5.049		
15,400.0	10,070.0	15,618.0	10,300.0	48.8	48.6	118.72	-5,209.6	212.6	478.9	382.4	96.48	4.964		
15,500.0	10,069.6	15,718.0	10,299.6	49.7	49.4	118.72	-5,309.6	211.9	478.9	380.8	98.11	4.881		
15,600.0	10,069.1	15,818.0	10,299.1	50.5	50.3	118.72	-5,409.6	211.1	478.9	379.2	99.74	4.801		
15,700.0	10,068.7	15,918.0	10,298.7	51.4	51.1	118.72	-5,509.6	210.4	478.9	377.5	101.38	4.724		
15,800.0	10,068.2	16,018.0	10,298.2	52.2	52.0	118.72	-5,609.6	209.6	478.9	375.9	103.02	4.649		
15,900.0	10,067.7	16,118.0	10,297.7	53.0	52.8	118.72	-5,709.6	208.9	478.9	374.2	104.65	4.576		
16,000.0	10,067.3	16,218.0	10,297.3	53.9	53.7	118.72	-5,809.6	208.1	478.9	372.6	106.29	4.505		
16,100.0	10,066.8	16,318.0	10,296.8	54.7	54.5	118.72	-5,909.6	207.4	478.9	371.0	107.94	4.437		
16,200.0	10,066.3	16,418.0	10,296.3	55.6	55.3	118.72	-6,009.5	206.6	478.9	369.3	109.58	4.370		
16,300.0	10,065.9	16,518.0	10,295.9	56.4	56.2	118.72	-6,109.5	205.9	478.9	367.7	111.22	4.306		
16,400.0	10,065.4	16,618.0	10,295.4	57.3	57.0	118.72	-6,209.5	205.1	478.9	366.0	112.87	4.243		
16,500.0	10,064.9	16,718.0	10,294.9	58.1	57.9	118.72	-6,309.5	204.4	478.9	364.4	114.51	4.182		
16,600.0	10,064.5	16,818.0	10,294.5	59.0	58.7	118.72	-6,409.5	203.6	478.9	362.7	116.16	4.123		
16,700.0	10,064.0	16,918.0	10,294.0	59.8	59.6	118.72	-6,509.5	202.9	478.9	361.1	117.81	4.065		
16,800.0	10,063.5	17,018.0	10,293.5	60.6	60.4	118.72	-6,609.5	202.1	478.9	359.4	119.46	4.009		
16,900.0	10,063.1	17,118.0	10,293.1	61.5	61.3	118.72	-6,709.5	201.4	478.9	357.8	121.11	3.954		
17,000.0	10,062.6	17,218.0	10,292.6	62.3	62.1	118.72	-6,809.5	200.6	478.9	356.1	122.76	3.901		
17,100.0	10,062.2	17,318.0	10,292.1	63.2	63.0	118.72	-6,909.5	199.9	478.9	354.5	124.41	3.849		
17,200.0	10,061.7	17,418.0	10,291.7	64.0	63.8	118.72	-7,009.5	199.1	478.9	352.8	126.07	3.799		
17,300.0	10,061.2	17,518.0	10,291.2	64.9	64.7	118.72	-7,109.5	198.4	478.9	351.2	127.72	3.750		
17,400.0	10,060.8	17,618.0	10,290.8	65.7	65.5	118.72	-7,209.5	197.6	478.9	349.5	129.38	3.702		
17,500.0	10,060.3	17,718.0	10,290.3	66.6	66.4	118.72	-7,309.5	196.9	478.9	347.9	131.03	3.655		
17,600.0	10,059.8	17,818.0	10,289.8	67.4	67.2	118.72	-7,409.5	196.1	478.9	346.2	132.69	3.609		
17,700.0	10,059.4	17,918.0	10,289.4	68.3	68.1	118.72	-7,509.5	195.4	478.9	344.6	134.34	3.565		
17,800.0	10,058.9	18,018.0	10,288.9	69.1	68.9	118.72	-7,609.5	194.6	478.9	342.9	136.00	3.521		
17,900.0	10,058.4	18,118.0	10,288.4	70.0	69.8	118.72	-7,709.5	193.9	478.9	341.2	137.66	3.479		
18,000.0	10,058.0	18,218.0	10,288.0	70.8	70.7	118.72	-7,809.5	193.1	478.9	339.6	139.32	3.437		
18,100.0	10,057.5	18,318.0	10,287.5	71.7	71.5	118.72	-7,909.5	192.4	478.9	337.9	140.98	3.397		
18,200.0	10,057.0	18,418.0	10,287.0	72.5	72.4	118.72	-8,009.5	191.6	478.9	336.3	142.64	3.357		
18,300.0	10,056.6	18,518.0	10,286.6	73.4	73.2	118.72	-8,109.5	190.9	478.9	334.6	144.30	3.319		
18,400.0	10,056.1	18,618.0	10,286.1	74.2	74.1	118.72	-8,209.5	190.1	478.9	332.9	145.96	3.281		
18,500.0	10,055.7	18,718.0	10,285.6	75.1	74.9	118.72	-8,309.5	189.4	478.9	331.3	147.62	3.244		
18,600.0	10,055.2	18,818.0	10,285.2	75.9	75.8	118.72	-8,409.5	188.6	478.9	329.6	149.28	3.208		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9714-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured	Depth	Depth	Depth	Reference	Offset	Offset	Toolface	+N/-S	+E/-W	Distance	Minimum	Separation	
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Between	Separation	Factor	
										Centres	Ellipses		
										(usft)	(usft)		
18,700.0	10,054.7	18,918.0	10,284.7	76.8	76.6	118.72	118.72	-8,509.5	187.9	478.9	327.9	150.95	3.173
18,800.0	10,054.3	19,018.0	10,284.2	77.6	77.5	118.72	118.72	-8,609.4	187.1	478.9	326.3	152.61	3.138
18,900.0	10,053.8	19,118.0	10,283.8	78.5	78.3	118.72	118.72	-8,709.4	186.4	478.9	324.6	154.27	3.104
19,000.0	10,053.3	19,218.0	10,283.3	79.3	79.2	118.72	118.72	-8,809.4	185.6	478.9	323.0	155.94	3.071
19,100.0	10,052.9	19,318.0	10,282.9	80.2	80.0	118.72	118.72	-8,909.4	184.9	478.9	321.3	157.60	3.039
19,200.0	10,052.4	19,418.0	10,282.4	81.0	80.9	118.72	118.72	-9,009.4	184.1	478.9	319.6	159.27	3.007
19,300.0	10,051.9	19,518.0	10,281.9	81.9	81.7	118.72	118.72	-9,109.4	183.4	478.9	318.0	160.93	2.976
19,400.0	10,051.5	19,618.0	10,281.5	82.7	82.6	118.72	118.72	-9,209.4	182.6	478.9	316.3	162.60	2.945
19,500.0	10,051.0	19,718.0	10,281.0	83.6	83.4	118.72	118.72	-9,309.4	181.9	478.9	314.6	164.26	2.915
19,600.0	10,050.5	19,818.0	10,280.5	84.4	84.3	118.72	118.72	-9,409.4	181.1	478.9	313.0	165.93	2.886
19,700.0	10,050.1	19,918.0	10,280.1	85.3	85.2	118.72	118.72	-9,509.4	180.4	478.9	311.3	167.60	2.857
19,800.0	10,049.6	20,018.0	10,279.6	86.1	86.0	118.72	118.72	-9,609.4	179.6	478.9	309.6	169.26	2.829
19,900.0	10,049.2	20,118.0	10,279.1	87.0	86.9	118.72	118.72	-9,709.4	178.9	478.9	308.0	170.93	2.802
20,000.0	10,048.7	20,218.0	10,278.7	87.8	87.7	118.72	118.72	-9,809.4	178.1	478.9	306.3	172.60	2.775
20,100.0	10,048.2	20,318.0	10,278.2	88.7	88.6	118.72	118.72	-9,909.4	177.4	478.9	304.6	174.27	2.748
20,200.0	10,047.8	20,418.0	10,277.7	89.6	89.4	118.72	118.72	-10,009.4	176.6	478.9	303.0	175.94	2.722
20,300.0	10,047.3	20,518.0	10,277.3	90.4	90.3	118.72	118.72	-10,109.4	175.9	478.9	301.3	177.61	2.696
20,400.0	10,046.8	20,618.0	10,276.8	91.3	91.1	118.72	118.72	-10,209.4	175.1	478.9	299.6	179.27	2.671
20,463.9	10,046.5	20,681.9	10,276.5	91.8	91.7	118.72	118.72	-10,273.3	174.6	478.9	298.5	180.34	2.655
20,471.9	10,046.5	20,689.4	10,276.5	91.9	91.7	118.71	118.71	-10,280.8	174.6	478.9	298.4	180.46	2.654
20,476.8	10,046.5	20,694.1	10,276.5	91.9	91.8	118.72	118.72	-10,285.5	174.5	478.9	298.4	180.54	2.653
20,500.0	10,046.4	20,717.3	10,276.4	92.1	92.0	118.72	118.72	-10,308.7	174.3	478.9	298.0	180.93	2.647
20,600.0	10,045.9	20,817.3	10,275.9	93.0	92.8	118.72	118.72	-10,408.7	173.4	478.9	296.3	182.60	2.623
20,700.0	10,045.4	20,917.3	10,275.4	93.8	93.7	118.71	118.71	-10,508.7	172.5	478.9	294.6	184.27	2.599
20,800.0	10,045.0	21,017.3	10,275.0	94.7	94.5	118.71	118.71	-10,608.6	171.6	478.9	293.0	185.94	2.576
20,900.0	10,044.5	21,117.3	10,274.5	95.5	95.4	118.71	118.71	-10,708.6	170.6	478.9	291.3	187.61	2.553
21,000.0	10,044.1	21,217.3	10,274.0	96.4	96.2	118.71	118.71	-10,808.6	169.7	478.9	289.6	189.28	2.530
21,100.0	10,043.6	21,317.3	10,273.6	97.2	97.1	118.71	118.71	-10,908.6	168.8	478.9	287.9	190.95	2.508
21,200.0	10,043.1	21,417.3	10,273.1	98.1	98.0	118.71	118.71	-11,008.6	167.9	478.9	286.3	192.62	2.486
21,300.0	10,042.7	21,517.3	10,272.6	98.9	98.8	118.71	118.71	-11,108.6	167.0	478.9	284.6	194.29	2.465
21,400.0	10,042.2	21,617.3	10,272.2	99.8	99.7	118.71	118.71	-11,208.6	166.0	478.9	282.9	195.96	2.444
21,500.0	10,041.7	21,717.3	10,271.7	100.6	100.5	118.71	118.71	-11,308.6	165.1	478.9	281.2	197.63	2.423
21,600.0	10,041.3	21,817.3	10,271.3	101.5	101.4	118.71	118.71	-11,408.6	164.2	478.9	279.6	199.31	2.403
21,700.0	10,040.8	21,917.3	10,270.8	102.4	102.2	118.71	118.71	-11,508.6	163.3	478.9	277.9	200.98	2.383
21,800.0	10,040.4	22,017.3	10,270.3	103.2	103.1	118.71	118.71	-11,608.6	162.4	478.9	276.2	202.65	2.363
21,900.0	10,039.9	22,117.3	10,269.9	104.1	103.9	118.71	118.71	-11,708.6	161.4	478.9	274.6	204.32	2.344
22,000.0	10,039.4	22,217.3	10,269.4	104.9	104.8	118.71	118.71	-11,808.6	160.5	478.9	272.9	206.00	2.325
22,100.0	10,039.0	22,317.3	10,268.9	105.8	105.7	118.71	118.71	-11,908.6	159.6	478.9	271.2	207.67	2.306
22,200.0	10,038.5	22,417.3	10,268.5	106.6	106.5	118.71	118.71	-12,008.6	158.7	478.9	269.5	209.34	2.288
22,300.0	10,038.0	22,517.3	10,268.0	107.5	107.4	118.71	118.71	-12,108.6	157.8	478.9	267.9	211.01	2.269
22,400.0	10,037.6	22,617.3	10,267.5	108.3	108.2	118.71	118.71	-12,208.6	156.8	478.9	266.2	212.69	2.252
22,500.0	10,037.1	22,717.3	10,267.1	109.2	109.1	118.71	118.71	-12,308.6	155.9	478.9	264.5	214.36	2.234
22,600.0	10,036.7	22,817.3	10,266.6	110.0	109.9	118.71	118.71	-12,408.6	155.0	478.9	262.8	216.04	2.217
22,700.0	10,036.2	22,917.3	10,266.2	110.9	110.8	118.71	118.71	-12,508.5	154.1	478.9	261.2	217.71	2.200
22,800.0	10,035.7	23,017.3	10,265.7	111.7	111.6	118.71	118.71	-12,608.5	153.2	478.9	259.5	219.38	2.183
22,900.0	10,035.3	23,117.3	10,265.2	112.6	112.5	118.71	118.71	-12,708.5	152.2	478.9	257.8	221.06	2.166
23,000.0	10,034.8	23,217.3	10,264.8	113.5	113.4	118.71	118.71	-12,808.5	151.3	478.9	256.1	222.73	2.150
23,100.0	10,034.3	23,317.3	10,264.3	114.3	114.2	118.71	118.71	-12,908.5	150.4	478.9	254.5	224.41	2.134
23,200.0	10,033.9	23,417.3	10,263.8	115.2	115.1	118.71	118.71	-13,008.5	149.5	478.9	252.8	226.08	2.118
23,300.0	10,033.4	23,517.3	10,263.4	116.0	115.9	118.71	118.71	-13,108.5	148.6	478.9	251.1	227.76	2.103
23,400.0	10,033.0	23,617.3	10,262.9	116.9	116.8	118.71	118.71	-13,208.5	147.6	478.9	249.4	229.43	2.087

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9714-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,500.0	10,032.5	23,717.3	10,262.4	117.7	117.6	118.71	-13,308.5	146.7	478.9	247.8	231.11	2.072	
23,600.0	10,032.0	23,817.3	10,262.0	118.6	118.5	118.71	-13,408.5	145.8	478.9	246.1	232.78	2.057	
23,700.0	10,031.6	23,917.3	10,261.5	119.4	119.3	118.71	-13,508.5	144.9	478.9	244.4	234.46	2.042	
23,800.0	10,031.1	24,017.3	10,261.0	120.3	120.2	118.71	-13,608.5	144.0	478.9	242.7	236.13	2.028	
23,900.0	10,030.6	24,117.3	10,260.6	121.1	121.1	118.71	-13,708.5	143.0	478.9	241.0	237.81	2.014	
24,000.0	10,030.2	24,217.3	10,260.1	122.0	121.9	118.71	-13,808.5	142.1	478.9	239.4	239.48	2.000	Advise and Monitor
24,100.0	10,029.7	24,317.3	10,259.7	122.9	122.8	118.71	-13,908.5	141.2	478.8	237.7	241.16	1.986	Advise and Monitor
24,200.0	10,029.3	24,417.3	10,259.2	123.7	123.6	118.71	-14,008.5	140.3	478.8	236.0	242.83	1.972	Advise and Monitor
24,300.0	10,028.8	24,517.3	10,258.7	124.6	124.5	118.71	-14,108.5	139.4	478.8	234.3	244.51	1.958	Advise and Monitor
24,400.0	10,028.3	24,617.3	10,258.3	125.4	125.3	118.71	-14,208.5	138.4	478.8	232.7	246.19	1.945	Advise and Monitor
24,500.0	10,027.9	24,717.3	10,257.8	126.3	126.2	118.71	-14,308.5	137.5	478.8	231.0	247.86	1.932	Advise and Monitor
24,600.0	10,027.4	24,817.3	10,257.3	127.1	127.0	118.71	-14,408.4	136.6	478.8	229.3	249.54	1.919	Advise and Monitor
24,700.0	10,026.9	24,917.3	10,256.9	128.0	127.9	118.71	-14,508.4	135.7	478.8	227.6	251.22	1.906	Advise and Monitor
24,800.0	10,026.5	25,017.3	10,256.4	128.8	128.8	118.71	-14,608.4	134.8	478.8	225.9	252.89	1.893	Advise and Monitor
24,900.0	10,026.0	25,117.3	10,255.9	129.7	129.6	118.71	-14,708.4	133.8	478.8	224.3	254.57	1.881	Advise and Monitor
25,000.0	10,025.6	25,217.3	10,255.5	130.6	130.5	118.71	-14,808.4	132.9	478.8	222.6	256.25	1.869	Advise and Monitor
25,100.0	10,025.1	25,317.3	10,255.0	131.4	131.3	118.71	-14,908.4	132.0	478.8	220.9	257.92	1.857	Advise and Monitor
25,200.0	10,024.6	25,417.3	10,254.6	132.3	132.2	118.71	-15,008.4	131.1	478.8	219.2	259.60	1.845	Advise and Monitor
25,300.0	10,024.2	25,517.3	10,254.1	133.1	133.0	118.71	-15,108.4	130.2	478.8	217.6	261.28	1.833	Advise and Monitor
25,400.0	10,023.7	25,617.3	10,253.6	134.0	133.9	118.71	-15,208.4	129.2	478.8	215.9	262.95	1.821	Advise and Monitor
25,500.0	10,023.2	25,717.3	10,253.2	134.8	134.7	118.71	-15,308.4	128.3	478.8	214.2	264.63	1.809	Advise and Monitor
25,534.1	10,023.1	25,751.4	10,253.0	135.1	135.0	118.71	-15,342.5	128.0	478.8	213.6	265.20	1.806	Advise and Monitor, SF
25,551.7	10,023.0	25,753.2	10,253.0	135.3	135.1	118.71	-15,344.3	128.0	479.1	214.0	265.08	1.807	Advise and Monitor
25,552.1	10,023.0	25,753.2	10,253.0	135.3	135.1	118.71	-15,344.3	128.0	479.1	214.0	265.11	1.807	Advise and Monitor

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #712H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9620-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance Between Centres (usft)	Minimum Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-90.19	-0.2	-60.1			60.1			
100.0	100.0	99.7	99.7	3.0	3.0	-90.19	-0.2	-60.1			60.1	54.1	6.00	10.016
200.0	200.0	199.7	199.7	3.0	3.0	-90.19	-0.2	-60.1			60.1	54.1	6.00	10.012
300.0	300.0	299.7	299.7	3.0	3.0	-90.19	-0.2	-60.1			60.1	54.1	6.01	10.001
400.0	400.0	399.7	399.7	3.0	3.0	-90.19	-0.2	-60.1			60.1	54.1	6.02	9.986
500.0	500.0	499.7	499.7	3.1	3.1	-90.19	-0.2	-60.1			60.1	54.1	6.03	9.965
600.0	600.0	599.7	599.7	3.1	3.1	-90.19	-0.2	-60.1			60.1	54.1	6.05	9.939
700.0	700.0	699.7	699.7	3.1	3.1	-90.19	-0.2	-60.1			60.1	54.0	6.07	9.908
800.0	800.0	799.7	799.7	3.2	3.2	-90.19	-0.2	-60.1			60.1	54.0	6.09	9.872
900.0	900.0	899.7	899.7	3.2	3.2	-90.19	-0.2	-60.1			60.1	54.0	6.11	9.832
1,000.0	1,000.0	999.7	999.7	3.2	3.2	-90.19	-0.2	-60.1			60.1	54.0	6.14	9.787
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	-90.19	-0.2	-60.1			60.1	53.9	6.17	9.737
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	-90.19	-0.2	-60.1			60.1	53.9	6.21	9.683
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	-90.19	-0.2	-60.1			60.1	53.9	6.24	9.626
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	-90.19	-0.2	-60.1			60.1	53.8	6.28	9.564
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	-90.19	-0.2	-60.1			60.1	53.8	6.33	9.499
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	-90.19	-0.2	-60.1			60.1	53.7	6.37	9.431
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	-90.19	-0.2	-60.1			60.1	53.7	6.42	9.360
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	-90.19	-0.2	-60.1			60.1	53.6	6.47	9.286
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	-90.19	-0.2	-60.1			60.1	53.6	6.53	9.210
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	-90.19	-0.2	-60.1			60.1	53.5	6.58	9.132
2,100.0	2,100.0	2,099.7	2,099.7	4.0	4.0	-90.19	-0.2	-60.1			60.1	53.5	6.64	9.051
2,200.0	2,200.0	2,199.7	2,199.7	4.1	4.1	-90.19	-0.2	-60.1			60.1	53.4	6.70	8.969
2,300.0	2,300.0	2,299.7	2,299.7	4.2	4.2	-90.19	-0.2	-60.1			60.1	53.3	6.76	8.885
2,400.0	2,400.0	2,399.7	2,399.7	4.3	4.3	-90.19	-0.2	-60.1			60.1	53.3	6.83	8.799
2,500.0	2,500.0	2,499.7	2,499.7	4.4	4.4	-90.19	-0.2	-60.1			60.1	53.2	6.90	8.713 CC, ES
2,600.0	2,600.0	2,598.2	2,598.2	4.5	4.5	-146.63	1.0	-61.3			62.8	55.8	6.97	9.008
2,700.0	2,699.8	2,696.2	2,696.1	4.5	4.6	-145.94	4.6	-64.8			70.8	63.7	7.04	10.049
2,800.0	2,799.5	2,794.4	2,793.9	4.6	4.6	-145.21	10.3	-70.5			83.8	76.7	7.12	11.769
2,900.0	2,898.9	2,893.3	2,892.4	4.7	4.7	-145.17	16.4	-76.6			98.7	91.5	7.21	13.686
3,000.0	2,998.4	2,992.2	2,990.9	4.8	4.8	-145.14	22.5	-82.7			113.5	106.2	7.30	15.544
3,100.0	3,097.8	3,091.0	3,089.4	4.8	4.9	-145.11	28.6	-88.8			128.4	121.0	7.40	17.343
3,200.0	3,197.3	3,189.9	3,187.9	4.9	5.0	-145.09	34.7	-94.9			143.2	135.7	7.51	19.080
3,300.0	3,296.7	3,288.8	3,286.5	5.0	5.1	-145.08	40.8	-100.9			158.1	150.5	7.62	20.755
3,400.0	3,396.2	3,387.7	3,385.0	5.1	5.1	-145.06	46.9	-107.0			173.0	165.2	7.73	22.367
3,500.0	3,495.6	3,486.6	3,483.5	5.2	5.2	-145.05	53.0	-113.1			187.8	180.0	7.85	23.917
3,600.0	3,595.1	3,585.5	3,582.0	5.2	5.3	-145.04	59.1	-119.2			202.7	194.7	7.98	25.406
3,700.0	3,694.5	3,684.4	3,680.5	5.3	5.4	-145.04	65.2	-125.3			217.5	209.4	8.11	26.834
3,800.0	3,794.0	3,783.3	3,779.0	5.4	5.5	-145.03	71.3	-131.4			232.4	224.1	8.24	28.201
3,900.0	3,893.4	3,882.2	3,877.5	5.5	5.6	-145.02	77.4	-137.5			247.2	238.9	8.38	29.511
4,000.0	3,992.9	3,981.1	3,976.1	5.6	5.7	-145.02	83.5	-143.5			262.1	253.6	8.52	30.763
4,100.0	4,092.3	4,079.9	4,074.6	5.7	5.8	-145.01	89.6	-149.6			276.9	268.3	8.67	31.960
4,200.0	4,191.8	4,178.8	4,173.1	5.8	5.9	-145.01	95.7	-155.7			291.8	283.0	8.81	33.103
4,300.0	4,291.2	4,277.7	4,271.6	5.9	6.0	-145.00	101.8	-161.8			306.7	297.7	8.97	34.195
4,400.0	4,390.7	4,376.6	4,370.1	6.0	6.1	-145.00	107.9	-167.9			321.5	312.4	9.12	35.236
4,500.0	4,490.1	4,475.5	4,468.6	6.1	6.2	-145.00	114.0	-174.0			336.4	327.1	9.28	36.229
4,600.0	4,589.6	4,574.4	4,567.1	6.2	6.3	-144.99	120.1	-180.0			351.2	341.8	9.45	37.176
4,700.0	4,689.0	4,673.3	4,665.7	6.3	6.4	-144.99	126.2	-186.1			366.1	356.5	9.61	38.079
4,800.0	4,788.5	4,772.2	4,764.2	6.4	6.5	-144.99	132.3	-192.2			380.9	371.2	9.78	38.940
4,900.0	4,887.9	4,871.1	4,862.7	6.5	6.6	-144.98	138.4	-198.3			395.8	385.8	9.95	39.760
5,000.0	4,987.4	4,970.0	4,961.2	6.6	6.8	-144.98	144.6	-204.4			410.7	400.5	10.13	40.541

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #712H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9620-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,086.9	5,068.8	5,059.7	6.7	6.9	-144.98	150.7	-210.5	425.5	415.2	10.31	41.285	
5,200.0	5,186.3	5,167.7	5,158.2	6.8	7.0	-144.98	156.8	-216.6	440.4	429.9	10.49	41.994	
5,300.0	5,285.8	5,266.6	5,256.7	6.9	7.1	-144.98	162.9	-222.6	455.2	444.5	10.67	42.669	
5,400.0	5,385.2	5,365.5	5,355.2	7.1	7.2	-144.98	169.0	-228.7	470.1	459.2	10.85	43.312	
5,500.0	5,484.7	5,464.4	5,453.8	7.2	7.3	-144.97	175.1	-234.8	484.9	473.9	11.04	43.925	
5,600.0	5,584.1	5,563.3	5,552.3	7.3	7.4	-144.97	181.2	-240.9	499.8	488.6	11.23	44.509	
5,700.0	5,683.6	5,662.2	5,650.8	7.4	7.5	-144.97	187.3	-247.0	514.6	503.2	11.42	45.065	
5,800.0	5,783.0	5,761.1	5,749.3	7.5	7.6	-144.97	193.4	-253.1	529.5	517.9	11.61	45.594	
5,900.0	5,882.5	5,860.0	5,847.8	7.6	7.7	-144.97	199.5	-259.1	544.4	532.5	11.81	46.099	
6,000.0	5,981.9	5,958.9	5,946.3	7.7	7.9	-144.97	205.6	-265.2	559.2	547.2	12.01	46.580	
6,100.0	6,081.4	6,057.8	6,044.8	7.8	8.0	-144.97	211.7	-271.3	574.1	561.9	12.20	47.038	
6,200.0	6,180.8	6,156.6	6,143.4	7.9	8.1	-144.96	217.8	-277.4	588.9	576.5	12.40	47.475	
6,300.0	6,280.3	6,255.5	6,241.9	8.1	8.2	-144.96	223.9	-283.5	603.8	591.2	12.61	47.891	
6,400.0	6,379.7	6,354.4	6,340.4	8.2	8.3	-144.96	230.0	-289.6	618.6	605.8	12.81	48.288	
6,500.0	6,479.2	6,453.3	6,438.9	8.3	8.4	-144.96	236.1	-295.7	633.5	620.5	13.02	48.666	
6,600.0	6,578.6	6,552.2	6,537.4	8.4	8.6	-144.96	242.2	-301.7	648.3	635.1	13.22	49.026	
6,700.0	6,678.1	6,651.1	6,635.9	8.5	8.7	-144.96	248.3	-307.8	663.2	649.8	13.43	49.370	
6,800.0	6,777.5	6,750.0	6,734.4	8.6	8.8	-144.96	254.4	-313.9	678.1	664.4	13.64	49.697	
6,900.0	6,877.0	6,848.9	6,833.0	8.8	8.9	-144.96	260.5	-320.0	692.9	679.1	13.86	50.010	
7,000.0	6,976.4	6,947.8	6,931.5	8.9	9.0	-144.96	266.6	-326.1	707.8	693.7	14.07	50.307	
7,100.0	7,075.9	7,046.7	7,030.0	9.0	9.1	-144.96	272.7	-332.2	722.6	708.3	14.28	50.591	
7,200.0	7,175.3	7,145.5	7,128.5	9.1	9.3	-144.96	278.8	-338.2	737.5	723.0	14.50	50.862	
7,300.0	7,274.8	7,244.4	7,227.0	9.2	9.4	-144.96	285.0	-344.3	752.3	737.6	14.72	51.120	
7,400.0	7,374.3	7,343.3	7,325.5	9.4	9.5	-144.95	291.1	-350.4	767.2	752.3	14.94	51.366	
7,500.0	7,473.7	7,447.2	7,429.0	9.5	9.6	-144.97	297.3	-356.7	781.9	766.7	15.15	51.609	
7,600.0	7,573.2	7,557.2	7,538.8	9.6	9.8	-145.07	302.7	-362.0	795.4	780.1	15.36	51.793	
7,700.0	7,672.6	7,667.6	7,649.0	9.7	9.9	-145.27	306.6	-365.9	807.6	792.0	15.56	51.897	
7,751.9	7,724.3	7,725.0	7,706.4	9.8	10.0	-145.41	308.0	-367.3	813.4	797.7	15.67	51.916	
7,800.0	7,772.1	7,778.3	7,759.6	9.8	10.0	-145.59	308.9	-368.2	818.2	802.5	15.77	51.900	
7,900.0	7,871.7	7,889.3	7,870.6	10.0	10.1	-145.95	309.8	-369.1	826.3	810.3	15.95	51.793	
8,000.0	7,971.4	7,989.8	7,971.1	10.1	10.3	-146.26	309.8	-369.1	832.1	816.0	16.11	51.641	
8,100.0	8,071.3	8,089.6	8,071.0	10.2	10.4	-146.48	309.8	-369.1	836.5	820.2	16.27	51.423	
8,200.0	8,171.2	8,189.6	8,170.9	10.3	10.5	-146.63	309.8	-369.1	839.4	823.0	16.42	51.131	
8,300.0	8,271.2	8,289.6	8,270.9	10.4	10.6	-146.71	309.8	-369.1	840.9	824.3	16.57	50.755	
8,351.9	8,323.2	8,341.5	8,322.9	10.5	10.7	-90.01	309.8	-369.1	841.1	824.5	16.63	50.570	
8,400.0	8,371.2	8,389.6	8,370.9	10.5	10.7	-90.01	309.8	-369.1	841.1	824.4	16.68	50.429	
8,500.0	8,471.2	8,489.6	8,470.9	10.6	10.8	-90.01	309.8	-369.1	841.1	824.3	16.78	50.136	
8,600.0	8,571.2	8,589.6	8,570.9	10.8	11.0	-90.01	309.8	-369.1	841.1	824.2	16.87	49.845	
8,700.0	8,671.2	8,689.6	8,670.9	10.9	11.1	-90.01	309.8	-369.1	841.1	824.1	16.97	49.555	
8,800.0	8,771.2	8,789.6	8,770.9	11.0	11.2	-90.01	309.8	-369.1	841.1	824.0	17.07	49.267	
8,900.0	8,871.2	8,889.6	8,870.9	11.1	11.3	-90.01	309.8	-369.1	841.1	823.9	17.17	48.981	
9,000.0	8,971.2	8,989.6	8,970.9	11.2	11.4	-90.01	309.8	-369.1	841.1	823.8	17.27	48.697	
9,100.0	9,071.2	9,089.6	9,070.9	11.3	11.5	-90.01	309.8	-369.1	841.1	823.7	17.37	48.414	
9,200.0	9,171.2	9,189.6	9,170.9	11.4	11.7	-90.01	309.8	-369.1	841.1	823.6	17.47	48.134	
9,300.0	9,271.2	9,289.6	9,270.9	11.5	11.8	-90.01	309.8	-369.1	841.1	823.5	17.58	47.855	
9,400.0	9,371.2	9,389.6	9,370.9	11.6	11.9	-90.01	309.8	-369.1	841.1	823.4	17.68	47.577	
9,500.0	9,471.2	9,489.6	9,470.9	11.8	12.0	-90.01	309.8	-369.1	841.1	823.3	17.78	47.302	
9,548.8	9,520.0	9,538.8	9,520.2	11.8	12.1	-90.02	309.7	-369.1	841.1	823.3	17.83	47.169	
9,550.0	9,521.2	9,540.1	9,521.4	11.8	12.1	91.73	309.7	-369.1	841.1	823.3	17.83	47.163	
9,600.0	9,571.2	9,592.4	9,573.6	11.8	12.1	91.66	306.3	-369.0	841.1	823.2	17.86	47.079	
9,650.0	9,620.7	9,644.5	9,625.1	11.8	12.8	91.58	298.1	-368.7	841.0	823.1	17.89	47.017	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #712H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9620-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
9,700.0	9,669.5	9,696.6	9,675.5	11.8	12.9	91.49	285.4	-368.3	841.0	823.1	17.90	46.974	
9,750.0	9,717.1	9,748.5	9,724.5	11.9	12.9	91.38	268.2	-367.8	840.9	823.0	17.93	46.902	
9,800.0	9,763.3	9,800.2	9,771.5	11.9	12.9	91.27	246.7	-367.2	840.9	822.9	17.97	46.793	
9,850.0	9,807.5	9,851.8	9,816.3	11.9	13.0	91.14	221.1	-366.4	840.9	822.8	18.03	46.638	
9,900.0	9,849.6	9,903.2	9,858.4	11.9	13.0	91.01	191.7	-365.5	840.8	822.7	18.11	46.429	
9,950.0	9,889.2	9,954.4	9,897.7	12.0	13.1	90.87	158.8	-364.4	840.8	822.6	18.21	46.159	
10,000.0	9,926.0	10,005.4	9,933.6	12.0	13.1	90.72	122.7	-363.3	840.7	822.4	18.35	45.820	
10,050.0	9,959.7	10,056.2	9,966.1	12.1	13.2	90.57	83.7	-362.1	840.7	822.2	18.51	45.407	
10,100.0	9,990.0	10,106.8	9,994.9	12.2	13.3	90.41	42.2	-360.9	840.7	822.0	18.72	44.918	
10,150.0	10,016.8	10,157.2	10,019.8	12.2	13.4	90.25	-1.6	-359.5	840.6	821.7	18.95	44.356	
10,200.0	10,039.8	10,207.3	10,040.7	12.3	13.4	90.09	-47.2	-358.1	840.6	821.4	19.23	43.724	
10,250.0	10,058.8	10,257.3	10,057.5	12.4	13.5	89.92	-94.2	-356.7	840.6	821.1	19.53	43.032	
10,300.0	10,073.8	10,307.0	10,070.1	12.4	13.6	89.76	-142.3	-355.2	840.6	820.7	19.88	42.291	
10,312.6	10,076.8	10,319.5	10,072.6	12.4	13.6	89.72	-154.5	-354.8	840.6	820.6	19.97	42.094	
10,350.0	10,084.5	10,356.6	10,078.4	12.5	13.6	89.60	-191.1	-353.7	840.6	820.4	20.25	41.516	
10,400.0	10,090.9	10,405.9	10,082.5	12.6	13.7	89.45	-240.2	-352.2	840.6	820.0	20.64	40.720	
10,451.4	10,093.0	10,456.9	10,082.8	12.6	13.7	89.33	-291.2	-350.6	840.6	819.6	21.08	39.884	
10,500.0	10,092.7	10,505.5	10,082.6	12.7	13.8	89.33	-339.7	-349.1	840.6	819.1	21.51	39.086	
10,600.0	10,092.3	10,605.5	10,082.1	12.9	13.9	89.33	-439.7	-346.0	840.6	818.1	22.48	37.395	
10,700.0	10,091.8	10,705.5	10,081.7	13.2	14.0	89.33	-539.6	-342.9	840.6	817.0	23.54	35.713	
10,800.0	10,091.3	10,805.5	10,081.2	13.5	14.2	89.33	-639.6	-339.9	840.5	815.9	24.67	34.072	
10,900.0	10,090.9	10,905.5	10,080.7	13.9	14.3	89.33	-739.5	-336.8	840.5	814.7	25.87	32.493	
11,000.0	10,090.4	11,005.5	10,080.3	14.3	14.6	89.33	-839.5	-333.7	840.5	813.4	27.12	30.989	
11,100.0	10,089.9	11,105.5	10,079.8	14.9	14.9	89.33	-939.4	-330.6	840.5	812.1	28.43	29.567	
11,200.0	10,089.5	11,205.5	10,079.3	15.4	15.4	89.33	-1,039.4	-327.5	840.5	810.7	29.77	28.229	
11,300.0	10,089.0	11,305.5	10,078.9	16.1	15.9	89.33	-1,139.3	-324.5	840.4	809.3	31.16	26.975	
11,400.0	10,088.6	11,405.5	10,078.4	16.7	16.5	89.33	-1,239.3	-321.4	840.4	807.8	32.57	25.802	
11,500.0	10,088.1	11,505.5	10,078.0	17.4	17.1	89.33	-1,339.2	-318.3	840.4	806.4	34.02	24.705	
11,600.0	10,087.6	11,605.5	10,077.5	18.1	17.8	89.33	-1,439.2	-315.2	840.4	804.9	35.49	23.682	
11,700.0	10,087.2	11,705.5	10,077.0	18.8	18.5	89.33	-1,539.2	-312.1	840.3	803.4	36.98	22.726	
11,800.0	10,086.7	11,805.5	10,076.6	19.5	19.2	89.33	-1,639.1	-309.1	840.3	801.8	38.49	21.834	
11,900.0	10,086.2	11,905.5	10,076.1	20.2	20.0	89.33	-1,739.1	-306.0	840.3	800.3	40.01	21.000	
12,000.0	10,085.8	12,005.5	10,075.6	21.0	20.8	89.33	-1,839.0	-302.9	840.3	798.7	41.56	20.220	
12,100.0	10,085.3	12,105.5	10,075.2	21.7	21.5	89.33	-1,939.0	-299.8	840.2	797.1	43.11	19.489	
12,200.0	10,084.9	12,205.5	10,074.7	22.5	22.3	89.33	-2,038.9	-296.7	840.2	795.5	44.68	18.804	
12,300.0	10,084.4	12,305.5	10,074.2	23.3	23.1	89.33	-2,138.9	-293.7	840.2	793.9	46.26	18.162	
12,400.0	10,083.9	12,405.5	10,073.8	24.1	23.9	89.33	-2,238.8	-290.6	840.2	792.3	47.85	17.558	
12,500.0	10,083.5	12,505.5	10,073.3	24.9	24.7	89.33	-2,338.8	-287.5	840.2	790.7	49.45	16.990	
12,600.0	10,083.0	12,605.5	10,072.8	25.7	25.5	89.33	-2,438.7	-284.4	840.1	789.1	51.06	16.455	
12,700.0	10,082.5	12,705.5	10,072.4	26.5	26.3	89.33	-2,538.7	-281.3	840.1	787.4	52.67	15.950	
12,800.0	10,082.1	12,805.5	10,071.9	27.3	27.1	89.33	-2,638.6	-278.3	840.1	785.8	54.29	15.474	
12,900.0	10,081.6	12,905.5	10,071.4	28.1	27.9	89.33	-2,738.6	-275.2	840.1	784.1	55.92	15.023	
13,000.0	10,081.2	13,005.5	10,071.0	28.9	28.7	89.33	-2,838.5	-272.1	840.0	782.5	57.55	14.596	
13,100.0	10,080.7	13,105.5	10,070.5	29.7	29.6	89.33	-2,938.5	-269.0	840.0	780.8	59.19	14.192	
13,200.0	10,080.2	13,205.5	10,070.0	30.5	30.4	89.33	-3,038.4	-265.9	840.0	779.2	60.83	13.809	
13,300.0	10,079.8	13,305.5	10,069.6	31.3	31.2	89.33	-3,138.4	-262.9	840.0	777.5	62.48	13.444	
13,400.0	10,079.3	13,405.5	10,069.1	32.1	32.0	89.33	-3,238.3	-259.8	839.9	775.8	64.13	13.098	
13,500.0	10,078.8	13,505.5	10,068.6	33.0	32.9	89.32	-3,338.3	-256.7	839.9	774.1	65.78	12.768	
13,600.0	10,078.4	13,605.5	10,068.2	33.8	33.7	89.32	-3,438.2	-253.6	839.9	772.5	67.44	12.454	
13,700.0	10,077.9	13,705.5	10,067.7	34.6	34.5	89.32	-3,538.2	-250.5	839.9	770.8	69.10	12.154	
13,800.0	10,077.5	13,805.5	10,067.3	35.4	35.4	89.32	-3,638.1	-247.5	839.9	769.1	70.77	11.868	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #712H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9620-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,900.0	10,077.0	13,905.5	10,066.8	36.3	36.2	89.32	-3,738.1	-244.4	839.8	767.4	72.43	11.595		
14,000.0	10,076.5	14,005.5	10,066.3	37.1	37.0	89.32	-3,838.0	-241.3	839.8	765.7	74.10	11.333		
14,100.0	10,076.1	14,105.5	10,065.9	37.9	37.9	89.32	-3,938.0	-238.2	839.8	764.0	75.77	11.083		
14,200.0	10,075.6	14,205.5	10,065.4	38.8	38.7	89.32	-4,037.9	-235.1	839.8	762.3	77.45	10.843		
14,300.0	10,075.1	14,305.5	10,064.9	39.6	39.5	89.32	-4,137.9	-232.1	839.7	760.6	79.12	10.613		
14,400.0	10,074.7	14,405.5	10,064.5	40.4	40.4	89.32	-4,237.8	-229.0	839.7	758.9	80.80	10.392		
14,500.0	10,074.2	14,505.5	10,064.0	41.3	41.2	89.32	-4,337.8	-225.9	839.7	757.2	82.48	10.180		
14,600.0	10,073.8	14,605.5	10,063.5	42.1	42.1	89.32	-4,437.7	-222.8	839.7	755.5	84.16	9.977		
14,700.0	10,073.3	14,705.5	10,063.1	43.0	42.9	89.32	-4,537.7	-219.8	839.6	753.8	85.85	9.781		
14,800.0	10,072.8	14,805.5	10,062.6	43.8	43.8	89.32	-4,637.6	-216.7	839.6	752.1	87.53	9.592		
14,900.0	10,072.4	14,905.5	10,062.1	44.6	44.6	89.32	-4,737.6	-213.6	839.6	750.4	89.22	9.411		
15,000.0	10,071.9	15,005.5	10,061.7	45.5	45.4	89.32	-4,837.6	-210.5	839.6	748.7	90.91	9.236		
15,100.0	10,071.4	15,105.5	10,061.2	46.3	46.3	89.32	-4,937.5	-207.4	839.6	747.0	92.60	9.067		
15,100.6	10,071.4	15,105.9	10,061.2	46.3	46.3	89.32	-4,937.9	-207.4	839.6	746.9	92.60	9.066		
15,129.8	10,071.3	15,128.7	10,061.1	46.6	46.5	89.32	-4,960.6	-206.8	839.7	746.6	93.04	9.025		
15,200.0	10,071.0	15,182.9	10,060.8	47.2	46.9	89.33	-5,014.9	-206.1	840.0	745.9	94.06	8.930		
15,238.9	10,070.8	15,213.0	10,060.7	47.5	47.2	89.33	-5,045.0	-206.1	840.0	745.4	94.61	8.878		
15,244.7	10,070.8	15,218.1	10,060.7	47.5	47.2	89.33	-5,050.1	-206.2	840.0	745.3	94.70	8.870		
15,300.0	10,070.5	15,273.3	10,060.4	48.0	47.7	89.33	-5,105.3	-206.6	840.0	744.4	95.63	8.784		
15,400.0	10,070.0	15,373.3	10,060.0	48.8	48.6	89.33	-5,205.3	-207.3	840.0	742.7	97.32	8.632		
15,500.0	10,069.6	15,473.3	10,059.5	49.7	49.4	89.33	-5,305.3	-208.1	840.0	741.0	99.00	8.485		
15,600.0	10,069.1	15,573.3	10,059.0	50.5	50.2	89.33	-5,405.3	-208.8	840.0	739.3	100.69	8.343		
15,700.0	10,068.7	15,673.3	10,058.6	51.4	51.1	89.33	-5,505.3	-209.6	840.0	737.7	102.38	8.205		
15,800.0	10,068.2	15,773.3	10,058.1	52.2	51.9	89.33	-5,605.3	-210.3	840.0	736.0	104.06	8.072		
15,900.0	10,067.7	15,873.3	10,057.6	53.0	52.8	89.33	-5,705.3	-211.1	840.0	734.3	105.75	7.943		
16,000.0	10,067.3	15,973.3	10,057.2	53.9	53.6	89.33	-5,805.3	-211.8	840.0	732.6	107.44	7.818		
16,100.0	10,066.8	16,073.3	10,056.7	54.7	54.5	89.33	-5,905.3	-212.6	840.0	730.9	109.13	7.697		
16,200.0	10,066.3	16,173.3	10,056.3	55.6	55.3	89.33	-6,005.3	-213.3	840.0	729.2	110.82	7.580		
16,300.0	10,065.9	16,273.3	10,055.8	56.4	56.2	89.33	-6,105.3	-214.1	840.0	727.5	112.52	7.466		
16,400.0	10,065.4	16,373.3	10,055.3	57.3	57.0	89.33	-6,205.3	-214.8	840.0	725.8	114.21	7.355		
16,500.0	10,064.9	16,473.3	10,054.9	58.1	57.9	89.33	-6,305.3	-215.6	840.0	724.1	115.90	7.248		
16,600.0	10,064.5	16,573.3	10,054.4	59.0	58.7	89.33	-6,405.3	-216.3	840.0	722.4	117.60	7.143		
16,700.0	10,064.0	16,673.3	10,053.9	59.8	59.6	89.33	-6,505.3	-217.1	840.0	720.7	119.29	7.042		
16,800.0	10,063.5	16,773.3	10,053.5	60.6	60.4	89.33	-6,605.3	-217.8	840.0	719.0	120.99	6.943		
16,900.0	10,063.1	16,873.3	10,053.0	61.5	61.2	89.33	-6,705.3	-218.6	840.0	717.4	122.68	6.847		
17,000.0	10,062.6	16,973.3	10,052.6	62.3	62.1	89.33	-6,805.2	-219.3	840.0	715.7	124.38	6.754		
17,100.0	10,062.2	17,073.3	10,052.1	63.2	62.9	89.33	-6,905.2	-220.1	840.0	714.0	126.08	6.663		
17,200.0	10,061.7	17,173.3	10,051.6	64.0	63.8	89.33	-7,005.2	-220.8	840.0	712.3	127.77	6.574		
17,300.0	10,061.2	17,273.3	10,051.2	64.9	64.6	89.33	-7,105.2	-221.6	840.0	710.6	129.47	6.488		
17,400.0	10,060.8	17,373.3	10,050.7	65.7	65.5	89.33	-7,205.2	-222.3	840.0	708.9	131.17	6.404		
17,500.0	10,060.3	17,473.3	10,050.2	66.6	66.3	89.33	-7,305.2	-223.1	840.0	707.2	132.87	6.322		
17,600.0	10,059.8	17,573.3	10,049.8	67.4	67.2	89.33	-7,405.2	-223.8	840.0	705.5	134.57	6.242		
17,700.0	10,059.4	17,673.3	10,049.3	68.3	68.0	89.33	-7,505.2	-224.6	840.0	703.8	136.27	6.165		
17,800.0	10,058.9	17,773.3	10,048.8	69.1	68.9	89.33	-7,605.2	-225.3	840.0	702.1	137.97	6.089		
17,900.0	10,058.4	17,873.3	10,048.4	70.0	69.7	89.33	-7,705.2	-226.1	840.0	700.4	139.67	6.014		
18,000.0	10,058.0	17,973.3	10,047.9	70.8	70.6	89.33	-7,805.2	-226.8	840.0	698.7	141.37	5.942		
18,100.0	10,057.5	18,073.3	10,047.5	71.7	71.4	89.33	-7,905.2	-227.6	840.0	697.0	143.07	5.871		
18,200.0	10,057.0	18,173.3	10,047.0	72.5	72.3	89.33	-8,005.2	-228.3	840.0	695.3	144.77	5.802		
18,300.0	10,056.6	18,273.3	10,046.5	73.4	73.2	89.33	-8,105.2	-229.1	840.0	693.6	146.48	5.735		
18,400.0	10,056.1	18,373.3	10,046.1	74.2	74.0	89.33	-8,205.2	-229.8	840.0	691.9	148.18	5.669		
18,500.0	10,055.7	18,473.3	10,045.6	75.1	74.9	89.34	-8,305.2	-230.6	840.0	690.2	149.88	5.605		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #712H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9620-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.0	10,055.2	18,573.3	10,045.1	75.9	75.7	89.34	89.34	-8,405.2	-231.3	840.0	688.5	151.58	5.542	
18,700.0	10,054.7	18,673.3	10,044.7	76.8	76.6	89.34	89.34	-8,505.2	-232.1	840.0	686.8	153.29	5.480	
18,800.0	10,054.3	18,773.3	10,044.2	77.6	77.4	89.34	89.34	-8,605.2	-232.8	840.0	685.1	154.99	5.420	
18,900.0	10,053.8	18,873.3	10,043.8	78.5	78.3	89.34	89.34	-8,705.2	-233.6	840.0	683.3	156.69	5.361	
19,000.0	10,053.3	18,973.3	10,043.3	79.3	79.1	89.34	89.34	-8,805.2	-234.3	840.0	681.6	158.40	5.303	
19,100.0	10,052.9	19,073.3	10,042.8	80.2	80.0	89.34	89.34	-8,905.2	-235.1	840.0	679.9	160.10	5.247	
19,200.0	10,052.4	19,173.3	10,042.4	81.0	80.8	89.34	89.34	-9,005.2	-235.8	840.0	678.2	161.81	5.192	
19,300.0	10,051.9	19,273.3	10,041.9	81.9	81.7	89.34	89.34	-9,105.2	-236.6	840.0	676.5	163.51	5.138	
19,400.0	10,051.5	19,373.3	10,041.4	82.7	82.5	89.34	89.34	-9,205.2	-237.3	840.0	674.8	165.22	5.084	
19,500.0	10,051.0	19,473.3	10,041.0	83.6	83.4	89.34	89.34	-9,305.2	-238.1	840.0	673.1	166.92	5.033	
19,600.0	10,050.5	19,573.3	10,040.5	84.4	84.2	89.34	89.34	-9,405.1	-238.9	840.0	671.4	168.63	4.982	
19,700.0	10,050.1	19,673.3	10,040.0	85.3	85.1	89.34	89.34	-9,505.1	-239.6	840.0	669.7	170.33	4.932	
19,800.0	10,049.6	19,773.3	10,039.6	86.1	85.9	89.34	89.34	-9,605.1	-240.4	840.0	668.0	172.04	4.883	
19,900.0	10,049.2	19,873.3	10,039.1	87.0	86.8	89.34	89.34	-9,705.1	-241.1	840.0	666.3	173.75	4.835	
20,000.0	10,048.7	19,973.3	10,038.7	87.8	87.6	89.34	89.34	-9,805.1	-241.9	840.0	664.6	175.45	4.788	
20,100.0	10,048.2	20,073.3	10,038.2	88.7	88.5	89.34	89.34	-9,905.1	-242.6	840.0	662.9	177.16	4.742	
20,200.0	10,047.8	20,173.3	10,037.7	89.6	89.4	89.34	89.34	-10,005.1	-243.4	840.0	661.2	178.86	4.697	
20,300.0	10,047.3	20,273.3	10,037.3	90.4	90.2	89.34	89.34	-10,105.1	-244.1	840.0	659.5	180.57	4.652	
20,400.0	10,046.8	20,373.3	10,036.8	91.3	91.1	89.34	89.34	-10,205.1	-244.9	840.0	657.8	182.28	4.609	
20,405.9	10,046.8	20,379.3	10,036.8	91.3	91.1	89.34	89.34	-10,211.1	-244.9	840.0	657.7	182.38	4.606	
20,471.9	10,046.5	20,444.0	10,036.5	91.9	91.7	89.34	89.34	-10,275.8	-245.4	840.1	656.6	183.49	4.578	
20,476.8	10,046.5	20,448.7	10,036.5	91.9	91.7	89.34	89.34	-10,280.5	-245.4	840.1	656.5	183.57	4.576	
20,500.0	10,046.4	20,471.9	10,036.4	92.1	91.9	89.34	89.34	-10,303.7	-245.6	840.1	656.1	183.97	4.566	
20,600.0	10,045.9	20,571.9	10,035.9	93.0	92.8	89.34	89.34	-10,403.7	-246.6	840.1	654.4	185.67	4.524	
20,700.0	10,045.4	20,671.9	10,035.4	93.8	93.6	89.34	89.34	-10,503.7	-247.5	840.1	652.7	187.38	4.483	
20,800.0	10,045.0	20,771.9	10,035.0	94.7	94.5	89.34	89.34	-10,603.7	-248.4	840.1	651.0	189.09	4.443	
20,900.0	10,044.5	20,871.9	10,034.5	95.5	95.3	89.34	89.34	-10,703.7	-249.3	840.1	649.3	190.79	4.403	
21,000.0	10,044.1	20,971.9	10,034.0	96.4	96.2	89.34	89.34	-10,803.7	-250.3	840.1	647.6	192.50	4.364	
21,100.0	10,043.6	21,071.9	10,033.6	97.2	97.0	89.34	89.34	-10,903.6	-251.2	840.1	645.8	194.21	4.326	
21,200.0	10,043.1	21,171.9	10,033.1	98.1	97.9	89.34	89.34	-11,003.6	-252.1	840.1	644.1	195.92	4.288	
21,300.0	10,042.7	21,271.9	10,032.6	98.9	98.7	89.34	89.34	-11,103.6	-253.0	840.1	642.4	197.62	4.251	
21,400.0	10,042.2	21,371.9	10,032.2	99.8	99.6	89.34	89.34	-11,203.6	-253.9	840.1	640.7	199.33	4.214	
21,500.0	10,041.7	21,471.9	10,031.7	100.6	100.4	89.34	89.34	-11,303.6	-254.9	840.1	639.0	201.04	4.179	
21,600.0	10,041.3	21,571.9	10,031.2	101.5	101.3	89.34	89.34	-11,403.6	-255.8	840.1	637.3	202.75	4.143	
21,700.0	10,040.8	21,671.9	10,030.8	102.4	102.1	89.34	89.34	-11,503.6	-256.7	840.1	635.6	204.46	4.109	
21,800.0	10,040.4	21,771.9	10,030.3	103.2	103.0	89.33	89.33	-11,603.6	-257.6	840.1	633.9	206.17	4.075	
21,900.0	10,039.9	21,871.9	10,029.8	104.1	103.9	89.33	89.33	-11,703.6	-258.5	840.1	632.2	207.88	4.041	
22,000.0	10,039.4	21,971.9	10,029.4	104.9	104.7	89.33	89.33	-11,803.6	-259.5	840.1	630.5	209.58	4.008	
22,100.0	10,039.0	22,071.9	10,028.9	105.8	105.6	89.33	89.33	-11,903.6	-260.4	840.1	628.8	211.29	3.976	
22,200.0	10,038.5	22,171.9	10,028.4	106.6	106.4	89.33	89.33	-12,003.6	-261.3	840.1	627.1	213.00	3.944	
22,300.0	10,038.0	22,271.9	10,028.0	107.5	107.3	89.33	89.33	-12,103.6	-262.2	840.1	625.4	214.71	3.913	
22,400.0	10,037.6	22,371.9	10,027.5	108.3	108.1	89.33	89.33	-12,203.6	-263.1	840.1	623.6	216.42	3.882	
22,500.0	10,037.1	22,471.9	10,027.0	109.2	109.0	89.33	89.33	-12,303.6	-264.1	840.1	621.9	218.13	3.851	
22,600.0	10,036.7	22,571.9	10,026.6	110.0	109.8	89.33	89.33	-12,403.6	-265.0	840.1	620.2	219.84	3.821	
22,700.0	10,036.2	22,671.9	10,026.1	110.9	110.7	89.33	89.33	-12,503.6	-265.9	840.1	618.5	221.55	3.792	
22,800.0	10,035.7	22,771.9	10,025.7	111.7	111.5	89.33	89.33	-12,603.6	-266.8	840.1	616.8	223.26	3.763	
22,900.0	10,035.3	22,871.9	10,025.2	112.6	112.4	89.33	89.33	-12,703.6	-267.8	840.1	615.1	224.97	3.734	
23,000.0	10,034.8	22,971.9	10,024.7	113.5	113.3	89.33	89.33	-12,803.5	-268.7	840.1	613.4	226.68	3.706	
23,100.0	10,034.3	23,071.9	10,024.3	114.3	114.1	89.33	89.33	-12,903.5	-269.6	840.1	611.7	228.39	3.678	
23,200.0	10,033.9	23,171.9	10,023.8	115.2	115.0	89.33	89.33	-13,003.5	-270.5	840.1	610.0	230.10	3.651	
23,300.0	10,033.4	23,271.9	10,023.3	116.0	115.8	89.33	89.33	-13,103.5	-271.4	840.1	608.3	231.81	3.624	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #712H - OWB - PWP1												Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 9620-MWD+IFR1+FDIR					Rule Assigned:					Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis	Offset Wellbore Centre			Distance		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,400.0	10,033.0	23,371.9	10,022.9	116.9	116.7	89.33	-13,203.5	-272.4	840.1	606.6	233.52	3.597	
23,500.0	10,032.5	23,471.9	10,022.4	117.7	117.5	89.33	-13,303.5	-273.3	840.1	604.8	235.23	3.571	
23,600.0	10,032.0	23,571.9	10,021.9	118.6	118.4	89.33	-13,403.5	-274.2	840.1	603.1	236.94	3.546	
23,700.0	10,031.6	23,671.9	10,021.5	119.4	119.2	89.33	-13,503.5	-275.1	840.1	601.4	238.65	3.520	
23,800.0	10,031.1	23,771.9	10,021.0	120.3	120.1	89.33	-13,603.5	-276.0	840.1	599.7	240.36	3.495	
23,900.0	10,030.6	23,871.9	10,020.5	121.1	121.0	89.33	-13,703.5	-277.0	840.1	598.0	242.07	3.470	
24,000.0	10,030.2	23,971.9	10,020.1	122.0	121.8	89.33	-13,803.5	-277.9	840.1	596.3	243.78	3.446	
24,100.0	10,029.7	24,071.9	10,019.6	122.9	122.7	89.33	-13,903.5	-278.8	840.1	594.6	245.49	3.422	
24,200.0	10,029.3	24,171.9	10,019.1	123.7	123.5	89.33	-14,003.5	-279.7	840.1	592.9	247.20	3.398	
24,300.0	10,028.8	24,271.9	10,018.7	124.6	124.4	89.33	-14,103.5	-280.7	840.1	591.2	248.91	3.375	
24,400.0	10,028.3	24,371.9	10,018.2	125.4	125.2	89.33	-14,203.5	-281.6	840.1	589.4	250.62	3.352	
24,500.0	10,027.9	24,471.9	10,017.7	126.3	126.1	89.33	-14,303.5	-282.5	840.1	587.7	252.33	3.329	
24,600.0	10,027.4	24,571.9	10,017.3	127.1	126.9	89.33	-14,403.5	-283.4	840.1	586.0	254.04	3.307	
24,700.0	10,026.9	24,671.9	10,016.8	128.0	127.8	89.33	-14,503.5	-284.3	840.1	584.3	255.76	3.285	
24,800.0	10,026.5	24,771.9	10,016.4	128.8	128.7	89.33	-14,603.4	-285.3	840.1	582.6	257.47	3.263	
24,900.0	10,026.0	24,871.9	10,015.9	129.7	129.5	89.33	-14,703.4	-286.2	840.1	580.9	259.18	3.241	
25,000.0	10,025.6	24,971.9	10,015.4	130.6	130.4	89.33	-14,803.4	-287.1	840.1	579.2	260.89	3.220	
25,100.0	10,025.1	25,071.9	10,015.0	131.4	131.2	89.33	-14,903.4	-288.0	840.1	577.5	262.60	3.199	
25,200.0	10,024.6	25,171.9	10,014.5	132.3	132.1	89.33	-15,003.4	-288.9	840.1	575.8	264.31	3.178	
25,300.0	10,024.2	25,271.9	10,014.0	133.1	132.9	89.33	-15,103.4	-289.9	840.1	574.1	266.02	3.158	
25,400.0	10,023.7	25,371.9	10,013.6	134.0	133.8	89.33	-15,203.4	-290.8	840.1	572.3	267.73	3.138	
25,500.0	10,023.2	25,471.9	10,013.1	134.8	134.6	89.33	-15,303.4	-291.7	840.1	570.6	269.45	3.118	
25,502.2	10,023.2	25,474.1	10,013.1	134.9	134.7	89.33	-15,305.6	-291.7	840.1	570.6	269.48	3.117	
25,551.7	10,023.0	25,493.4	10,013.0	135.3	134.8	89.33	-15,324.9	-291.9	840.6	570.8	269.78	3.116 SF	
25,552.1	10,023.0	25,493.4	10,013.0	135.3	134.8	89.33	-15,324.9	-291.9	840.6	570.9	269.78	3.116	

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

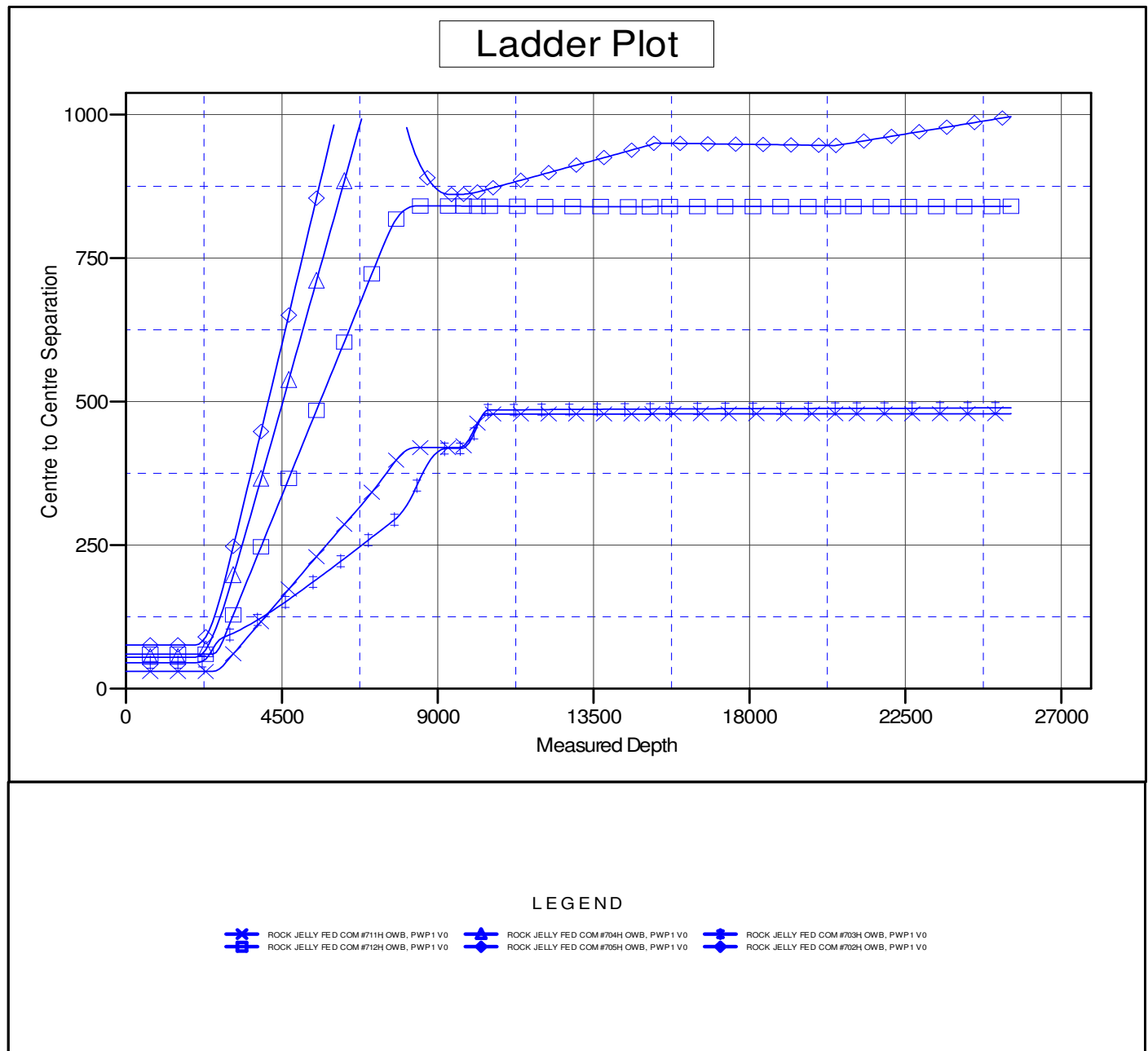
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3003.4usft (P84)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #710H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.19°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3003.4usft (P84)

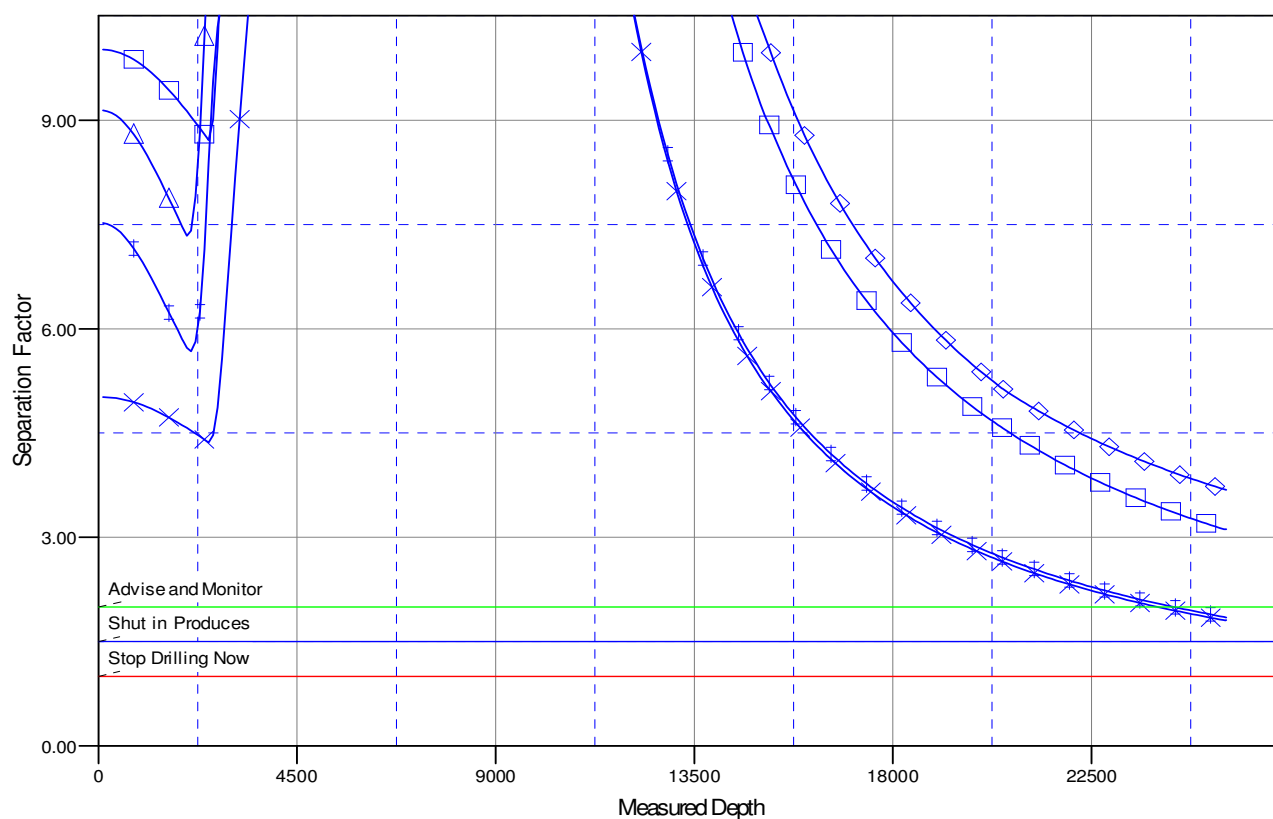
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #710H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.19°

Separation Factor Plot**LEGEND**

ROCK JELLY FED COM #711H OWB, PWP1 V0
 ROCK JELLY FED COM #704H OWB, PWP1 V0
 ROCK JELLY FED COM #703H OWB, PWP1 V0
 ROCK JELLY FED COM #712H OWB, PWP1 V0
 ROCK JELLY FED COM #705H OWB, PWP1 V0
 ROCK JELLY FED COM #702H OWB, PWP1 V0

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #710H

OWB

Plan: PWP1

Standard Survey Report

18 January, 2022

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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

Site	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)		
Site Position:		Northing:	392,391.50 usft
From:	Map	Easting:	613,615.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 41.768 N
		Longitude:	103° 57' 59.453 W
		Grid Convergence:	0.19 °

Well	ROCK JELLY FED COM #710H					
Well Position	+N-S	0.0 usft	Northing:	392,195.70 usft	Latitude:	32° 4' 39.921 N
	+E-W	0.0 usft	Easting:	610,900.80 usft	Longitude:	103° 58' 31.012 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,978.4 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	12/13/2021	6.65	59.69	47,531.27797782

Design	PWP1				
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	177.96	

Survey Tool Program	Date	1/18/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,550.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,550.0	25,551.7	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

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	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
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	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	56.70	2,600.0	1.0	1.5	-0.9	2.00	2.00	0.00
2,700.0	4.00	56.70	2,699.8	3.8	5.8	-3.6	2.00	2.00	0.00
2,800.0	6.00	56.70	2,799.5	8.6	13.1	-8.1	2.00	2.00	0.00
Start 4951.9 hold at 2800.0 MD									
2,900.0	6.00	56.70	2,898.9	14.4	21.9	-13.6	0.00	0.00	0.00
3,000.0	6.00	56.70	2,998.4	20.1	30.6	-19.0	0.00	0.00	0.00
3,100.0	6.00	56.70	3,097.8	25.8	39.3	-24.4	0.00	0.00	0.00
3,200.0	6.00	56.70	3,197.3	31.6	48.1	-29.8	0.00	0.00	0.00
3,300.0	6.00	56.70	3,296.7	37.3	56.8	-35.3	0.00	0.00	0.00
3,400.0	6.00	56.70	3,396.2	43.0	65.5	-40.7	0.00	0.00	0.00
3,500.0	6.00	56.70	3,495.6	48.8	74.3	-46.1	0.00	0.00	0.00
3,600.0	6.00	56.70	3,595.1	54.5	83.0	-51.5	0.00	0.00	0.00
3,700.0	6.00	56.70	3,694.5	60.3	91.8	-57.0	0.00	0.00	0.00
3,800.0	6.00	56.70	3,794.0	66.0	100.5	-62.4	0.00	0.00	0.00
3,900.0	6.00	56.70	3,893.4	71.7	109.2	-67.8	0.00	0.00	0.00
4,000.0	6.00	56.70	3,992.9	77.5	118.0	-73.2	0.00	0.00	0.00
4,100.0	6.00	56.70	4,092.3	83.2	126.7	-78.6	0.00	0.00	0.00
4,200.0	6.00	56.70	4,191.8	89.0	135.4	-84.1	0.00	0.00	0.00
4,300.0	6.00	56.70	4,291.2	94.7	144.2	-89.5	0.00	0.00	0.00
4,400.0	6.00	56.70	4,390.7	100.4	152.9	-94.9	0.00	0.00	0.00
4,500.0	6.00	56.70	4,490.1	106.2	161.6	-100.3	0.00	0.00	0.00
4,600.0	6.00	56.70	4,589.6	111.9	170.4	-105.8	0.00	0.00	0.00
4,700.0	6.00	56.70	4,689.0	117.6	179.1	-111.2	0.00	0.00	0.00
4,800.0	6.00	56.70	4,788.5	123.4	187.9	-116.6	0.00	0.00	0.00
4,900.0	6.00	56.70	4,887.9	129.1	196.6	-122.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
5,000.0	6.00	56.70	4,987.4	134.9	205.3	-127.5	0.00	0.00	0.00
5,100.0	6.00	56.70	5,086.9	140.6	214.1	-132.9	0.00	0.00	0.00
5,200.0	6.00	56.70	5,186.3	146.3	222.8	-138.3	0.00	0.00	0.00
5,300.0	6.00	56.70	5,285.8	152.1	231.5	-143.7	0.00	0.00	0.00
5,400.0	6.00	56.70	5,385.2	157.8	240.3	-149.1	0.00	0.00	0.00
5,500.0	6.00	56.70	5,484.7	163.5	249.0	-154.6	0.00	0.00	0.00
5,600.0	6.00	56.70	5,584.1	169.3	257.8	-160.0	0.00	0.00	0.00
5,700.0	6.00	56.70	5,683.6	175.0	266.5	-165.4	0.00	0.00	0.00
5,800.0	6.00	56.70	5,783.0	180.8	275.2	-170.8	0.00	0.00	0.00
5,900.0	6.00	56.70	5,882.5	186.5	284.0	-176.3	0.00	0.00	0.00
6,000.0	6.00	56.70	5,981.9	192.2	292.7	-181.7	0.00	0.00	0.00
6,100.0	6.00	56.70	6,081.4	198.0	301.4	-187.1	0.00	0.00	0.00
6,200.0	6.00	56.70	6,180.8	203.7	310.2	-192.5	0.00	0.00	0.00
6,300.0	6.00	56.70	6,280.3	209.5	318.9	-198.0	0.00	0.00	0.00
6,400.0	6.00	56.70	6,379.7	215.2	327.6	-203.4	0.00	0.00	0.00
6,500.0	6.00	56.70	6,479.2	220.9	336.4	-208.8	0.00	0.00	0.00
6,600.0	6.00	56.70	6,578.6	226.7	345.1	-214.2	0.00	0.00	0.00
6,700.0	6.00	56.70	6,678.1	232.4	353.9	-219.6	0.00	0.00	0.00
6,800.0	6.00	56.70	6,777.5	238.1	362.6	-225.1	0.00	0.00	0.00
6,900.0	6.00	56.70	6,877.0	243.9	371.3	-230.5	0.00	0.00	0.00
7,000.0	6.00	56.70	6,976.4	249.6	380.1	-235.9	0.00	0.00	0.00
7,100.0	6.00	56.70	7,075.9	255.4	388.8	-241.3	0.00	0.00	0.00
7,200.0	6.00	56.70	7,175.3	261.1	397.5	-246.8	0.00	0.00	0.00
7,300.0	6.00	56.70	7,274.8	266.8	406.3	-252.2	0.00	0.00	0.00
7,400.0	6.00	56.70	7,374.3	272.6	415.0	-257.6	0.00	0.00	0.00
7,500.0	6.00	56.70	7,473.7	278.3	423.8	-263.0	0.00	0.00	0.00
7,600.0	6.00	56.70	7,573.2	284.1	432.5	-268.5	0.00	0.00	0.00
7,700.0	6.00	56.70	7,672.6	289.8	441.2	-273.9	0.00	0.00	0.00
7,751.9	6.00	56.70	7,724.3	292.8	445.8	-276.7	0.00	0.00	0.00
Start Drop -1.00									
7,800.0	5.52	56.70	7,772.1	295.4	449.8	-279.2	1.00	-1.00	0.00
7,900.0	4.52	56.70	7,871.7	300.2	457.1	-283.7	1.00	-1.00	0.00
8,000.0	3.52	56.70	7,971.4	304.1	463.0	-287.4	1.00	-1.00	0.00
8,100.0	2.52	56.70	8,071.3	307.0	467.4	-290.1	1.00	-1.00	0.00
8,200.0	1.52	56.70	8,171.2	308.9	470.3	-291.9	1.00	-1.00	0.00
8,300.0	0.52	56.70	8,271.2	309.9	471.8	-292.9	1.00	-1.00	0.00
8,351.9	0.00	0.00	8,323.2	310.0	472.0	-293.0	1.00	-1.00	0.00
Start 1196.8 hold at 8351.9 MD									
8,400.0	0.00	0.00	8,371.2	310.0	472.0	-293.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,471.2	310.0	472.0	-293.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,571.2	310.0	472.0	-293.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,671.2	310.0	472.0	-293.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
8,800.0	0.00	0.00	8,771.2	310.0	472.0	-293.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,871.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,971.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,071.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,171.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,271.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,371.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,471.2	310.0	472.0	-293.0	0.00	0.00	0.00
9,548.8	0.00	0.00	9,520.0	310.0	472.0	-293.0	0.00	0.00	0.00
Start DLS 10.00 TFO 178.25									
9,600.0	5.12	178.25	9,571.2	307.7	472.1	-290.7	10.00	10.00	0.00
9,700.0	15.12	178.25	9,669.5	290.2	472.6	-273.1	10.00	10.00	0.00
9,800.0	25.12	178.25	9,763.3	255.8	473.7	-238.8	10.00	10.00	0.00
9,900.0	35.12	178.25	9,849.6	205.7	475.2	-188.7	10.00	10.00	0.00
10,000.0	45.12	178.25	9,926.0	141.4	477.2	-124.3	10.00	10.00	0.00
10,100.0	55.12	178.25	9,990.0	64.8	479.5	-47.7	10.00	10.00	0.00
10,200.0	65.12	178.25	10,039.8	-21.8	482.1	38.9	10.00	10.00	0.00
10,300.0	75.12	178.25	10,073.8	-115.7	485.0	132.9	10.00	10.00	0.00
10,400.0	85.12	178.25	10,090.9	-214.0	488.0	231.3	10.00	10.00	0.00
10,451.4	90.27	178.25	10,093.0	-265.3	489.6	282.6	10.00	10.00	0.00
Start 4678.4 hold at 10451.4 MD									
10,500.0	90.27	178.25	10,092.7	-313.9	491.1	331.2	0.00	0.00	0.00
10,600.0	90.27	178.25	10,092.3	-413.8	494.1	431.2	0.00	0.00	0.00
10,700.0	90.27	178.25	10,091.8	-513.8	497.2	531.2	0.00	0.00	0.00
10,800.0	90.27	178.25	10,091.3	-613.8	500.2	631.2	0.00	0.00	0.00
10,900.0	90.27	178.25	10,090.9	-713.7	503.3	731.2	0.00	0.00	0.00
11,000.0	90.27	178.25	10,090.4	-813.7	506.4	831.2	0.00	0.00	0.00
11,100.0	90.27	178.25	10,089.9	-913.6	509.4	931.2	0.00	0.00	0.00
11,200.0	90.27	178.25	10,089.5	-1,013.6	512.5	1,031.2	0.00	0.00	0.00
11,300.0	90.27	178.25	10,089.0	-1,113.5	515.5	1,131.2	0.00	0.00	0.00
11,400.0	90.27	178.25	10,088.6	-1,213.5	518.6	1,231.2	0.00	0.00	0.00
11,500.0	90.27	178.25	10,088.1	-1,313.4	521.6	1,331.2	0.00	0.00	0.00
11,600.0	90.27	178.25	10,087.6	-1,413.4	524.7	1,431.2	0.00	0.00	0.00
11,700.0	90.27	178.25	10,087.2	-1,513.3	527.8	1,531.2	0.00	0.00	0.00
11,800.0	90.27	178.25	10,086.7	-1,613.3	530.8	1,631.2	0.00	0.00	0.00
11,900.0	90.27	178.25	10,086.2	-1,713.2	533.9	1,731.2	0.00	0.00	0.00
12,000.0	90.27	178.25	10,085.8	-1,813.2	536.9	1,831.2	0.00	0.00	0.00
12,100.0	90.27	178.25	10,085.3	-1,913.1	540.0	1,931.2	0.00	0.00	0.00
12,200.0	90.27	178.25	10,084.9	-2,013.1	543.0	2,031.2	0.00	0.00	0.00
12,300.0	90.27	178.25	10,084.4	-2,113.0	546.1	2,131.2	0.00	0.00	0.00
12,400.0	90.27	178.25	10,083.9	-2,213.0	549.1	2,231.1	0.00	0.00	0.00
12,500.0	90.27	178.25	10,083.5	-2,312.9	552.2	2,331.1	0.00	0.00	0.00
12,600.0	90.27	178.25	10,083.0	-2,412.9	555.3	2,431.1	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
12,700.0	90.27	178.25	10,082.5	-2,512.8	558.3	2,531.1	0.00	0.00	0.00
12,800.0	90.27	178.25	10,082.1	-2,612.8	561.4	2,631.1	0.00	0.00	0.00
12,900.0	90.27	178.25	10,081.6	-2,712.7	564.4	2,731.1	0.00	0.00	0.00
13,000.0	90.27	178.25	10,081.2	-2,812.7	567.5	2,831.1	0.00	0.00	0.00
13,100.0	90.27	178.25	10,080.7	-2,912.7	570.5	2,931.1	0.00	0.00	0.00
13,200.0	90.27	178.25	10,080.2	-3,012.6	573.6	3,031.1	0.00	0.00	0.00
13,300.0	90.27	178.25	10,079.8	-3,112.6	576.6	3,131.1	0.00	0.00	0.00
13,400.0	90.27	178.25	10,079.3	-3,212.5	579.7	3,231.1	0.00	0.00	0.00
13,500.0	90.27	178.25	10,078.8	-3,312.5	582.8	3,331.1	0.00	0.00	0.00
13,600.0	90.27	178.25	10,078.4	-3,412.4	585.8	3,431.1	0.00	0.00	0.00
13,700.0	90.27	178.25	10,077.9	-3,512.4	588.9	3,531.1	0.00	0.00	0.00
13,800.0	90.27	178.25	10,077.5	-3,612.3	591.9	3,631.1	0.00	0.00	0.00
13,900.0	90.27	178.25	10,077.0	-3,712.3	595.0	3,731.1	0.00	0.00	0.00
14,000.0	90.27	178.25	10,076.5	-3,812.2	598.0	3,831.1	0.00	0.00	0.00
14,100.0	90.27	178.25	10,076.1	-3,912.2	601.1	3,931.1	0.00	0.00	0.00
14,200.0	90.27	178.25	10,075.6	-4,012.1	604.2	4,031.1	0.00	0.00	0.00
14,300.0	90.27	178.25	10,075.1	-4,112.1	607.2	4,131.1	0.00	0.00	0.00
14,400.0	90.27	178.25	10,074.7	-4,212.0	610.3	4,231.1	0.00	0.00	0.00
14,500.0	90.27	178.25	10,074.2	-4,312.0	613.3	4,331.1	0.00	0.00	0.00
14,600.0	90.27	178.25	10,073.8	-4,411.9	616.4	4,431.1	0.00	0.00	0.00
14,700.0	90.27	178.25	10,073.3	-4,511.9	619.4	4,531.1	0.00	0.00	0.00
14,800.0	90.27	178.25	10,072.8	-4,611.8	622.5	4,631.1	0.00	0.00	0.00
14,900.0	90.27	178.25	10,072.4	-4,711.8	625.5	4,731.1	0.00	0.00	0.00
15,000.0	90.27	178.25	10,071.9	-4,811.7	628.6	4,831.1	0.00	0.00	0.00
15,100.0	90.27	178.25	10,071.4	-4,911.7	631.7	4,931.1	0.00	0.00	0.00
15,129.8	90.27	178.25	10,071.3	-4,941.5	632.6	4,960.9	0.00	0.00	0.00
Start DLS 2.00 TFO 89.97									
15,200.0	90.27	179.65	10,071.0	-5,011.7	633.9	5,031.1	2.00	0.00	2.00
15,238.9	90.27	180.43	10,070.8	-5,050.5	633.8	5,069.9	2.00	0.00	2.00
Start 5233.0 hold at 15238.9 MD									
15,300.0	90.27	180.43	10,070.5	-5,111.7	633.4	5,131.0	0.00	0.00	0.00
15,400.0	90.27	180.43	10,070.0	-5,211.7	632.6	5,230.9	0.00	0.00	0.00
15,500.0	90.27	180.43	10,069.6	-5,311.7	631.9	5,330.8	0.00	0.00	0.00
15,600.0	90.27	180.43	10,069.1	-5,411.7	631.1	5,430.7	0.00	0.00	0.00
15,700.0	90.27	180.43	10,068.7	-5,511.6	630.4	5,530.6	0.00	0.00	0.00
15,800.0	90.27	180.43	10,068.2	-5,611.6	629.6	5,630.5	0.00	0.00	0.00
15,900.0	90.27	180.43	10,067.7	-5,711.6	628.9	5,730.4	0.00	0.00	0.00
16,000.0	90.27	180.43	10,067.3	-5,811.6	628.1	5,830.3	0.00	0.00	0.00
16,100.0	90.27	180.43	10,066.8	-5,911.6	627.4	5,930.2	0.00	0.00	0.00
16,200.0	90.27	180.43	10,066.3	-6,011.6	626.6	6,030.1	0.00	0.00	0.00
16,300.0	90.27	180.43	10,065.9	-6,111.6	625.9	6,130.0	0.00	0.00	0.00
16,400.0	90.27	180.43	10,065.4	-6,211.6	625.1	6,230.0	0.00	0.00	0.00
16,500.0	90.27	180.43	10,064.9	-6,311.6	624.4	6,329.9	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
16,600.0	90.27	180.43	10,064.5	-6,411.6	623.6	6,429.8	0.00	0.00	0.00
16,700.0	90.27	180.43	10,064.0	-6,511.6	622.9	6,529.7	0.00	0.00	0.00
16,800.0	90.27	180.43	10,063.5	-6,611.6	622.1	6,629.6	0.00	0.00	0.00
16,900.0	90.27	180.43	10,063.1	-6,711.6	621.4	6,729.5	0.00	0.00	0.00
17,000.0	90.27	180.43	10,062.6	-6,811.6	620.6	6,829.4	0.00	0.00	0.00
17,100.0	90.27	180.43	10,062.2	-6,911.6	619.9	6,929.3	0.00	0.00	0.00
17,200.0	90.27	180.43	10,061.7	-7,011.6	619.1	7,029.2	0.00	0.00	0.00
17,300.0	90.27	180.43	10,061.2	-7,111.6	618.4	7,129.1	0.00	0.00	0.00
17,400.0	90.27	180.43	10,060.8	-7,211.6	617.6	7,229.0	0.00	0.00	0.00
17,500.0	90.27	180.43	10,060.3	-7,311.6	616.9	7,328.9	0.00	0.00	0.00
17,600.0	90.27	180.43	10,059.8	-7,411.6	616.1	7,428.8	0.00	0.00	0.00
17,700.0	90.27	180.43	10,059.4	-7,511.6	615.4	7,528.7	0.00	0.00	0.00
17,800.0	90.27	180.43	10,058.9	-7,611.6	614.6	7,628.6	0.00	0.00	0.00
17,900.0	90.27	180.43	10,058.4	-7,711.6	613.9	7,728.5	0.00	0.00	0.00
18,000.0	90.27	180.43	10,058.0	-7,811.6	613.1	7,828.4	0.00	0.00	0.00
18,100.0	90.27	180.43	10,057.5	-7,911.6	612.4	7,928.4	0.00	0.00	0.00
18,200.0	90.27	180.43	10,057.0	-8,011.6	611.6	8,028.3	0.00	0.00	0.00
18,300.0	90.27	180.43	10,056.6	-8,111.5	610.9	8,128.2	0.00	0.00	0.00
18,400.0	90.27	180.43	10,056.1	-8,211.5	610.1	8,228.1	0.00	0.00	0.00
18,500.0	90.27	180.43	10,055.7	-8,311.5	609.4	8,328.0	0.00	0.00	0.00
18,600.0	90.27	180.43	10,055.2	-8,411.5	608.6	8,427.9	0.00	0.00	0.00
18,700.0	90.27	180.43	10,054.7	-8,511.5	607.9	8,527.8	0.00	0.00	0.00
18,800.0	90.27	180.43	10,054.3	-8,611.5	607.1	8,627.7	0.00	0.00	0.00
18,900.0	90.27	180.43	10,053.8	-8,711.5	606.4	8,727.6	0.00	0.00	0.00
19,000.0	90.27	180.43	10,053.3	-8,811.5	605.6	8,827.5	0.00	0.00	0.00
19,100.0	90.27	180.43	10,052.9	-8,911.5	604.9	8,927.4	0.00	0.00	0.00
19,200.0	90.27	180.43	10,052.4	-9,011.5	604.1	9,027.3	0.00	0.00	0.00
19,300.0	90.27	180.43	10,051.9	-9,111.5	603.4	9,127.2	0.00	0.00	0.00
19,400.0	90.27	180.43	10,051.5	-9,211.5	602.6	9,227.1	0.00	0.00	0.00
19,500.0	90.27	180.43	10,051.0	-9,311.5	601.9	9,327.0	0.00	0.00	0.00
19,600.0	90.27	180.43	10,050.5	-9,411.5	601.1	9,426.9	0.00	0.00	0.00
19,700.0	90.27	180.43	10,050.1	-9,511.5	600.4	9,526.8	0.00	0.00	0.00
19,800.0	90.27	180.43	10,049.6	-9,611.5	599.6	9,626.8	0.00	0.00	0.00
19,900.0	90.27	180.43	10,049.2	-9,711.5	598.9	9,726.7	0.00	0.00	0.00
20,000.0	90.27	180.43	10,048.7	-9,811.5	598.1	9,826.6	0.00	0.00	0.00
20,100.0	90.27	180.43	10,048.2	-9,911.5	597.4	9,926.5	0.00	0.00	0.00
20,200.0	90.27	180.43	10,047.8	-10,011.5	596.6	10,026.4	0.00	0.00	0.00
20,300.0	90.27	180.43	10,047.3	-10,111.5	595.9	10,126.3	0.00	0.00	0.00
20,400.0	90.27	180.43	10,046.8	-10,211.5	595.1	10,226.2	0.00	0.00	0.00
20,471.9	90.27	180.43	10,046.5	-10,283.4	594.6	10,298.0	0.00	0.00	0.00
Start DLS 2.00 TFO 90.55									
20,476.8	90.27	180.53	10,046.5	-10,288.3	594.5	10,302.9	2.00	-0.02	2.00
Start 5074.9 hold at 20476.8 MD									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
20,500.0	90.27	180.53	10,046.4	-10,311.5	594.3	10,326.1	0.00	0.00	0.00
20,600.0	90.27	180.53	10,045.9	-10,411.5	593.4	10,426.0	0.00	0.00	0.00
20,700.0	90.27	180.53	10,045.4	-10,511.5	592.5	10,525.9	0.00	0.00	0.00
20,800.0	90.27	180.53	10,045.0	-10,611.4	591.6	10,625.8	0.00	0.00	0.00
20,900.0	90.27	180.53	10,044.5	-10,711.4	590.6	10,725.7	0.00	0.00	0.00
21,000.0	90.27	180.53	10,044.1	-10,811.4	589.7	10,825.6	0.00	0.00	0.00
21,100.0	90.27	180.53	10,043.6	-10,911.4	588.8	10,925.5	0.00	0.00	0.00
21,200.0	90.27	180.53	10,043.1	-11,011.4	587.9	11,025.4	0.00	0.00	0.00
21,300.0	90.27	180.53	10,042.7	-11,111.4	587.0	11,125.3	0.00	0.00	0.00
21,400.0	90.27	180.53	10,042.2	-11,211.4	586.0	11,225.2	0.00	0.00	0.00
21,500.0	90.27	180.53	10,041.7	-11,311.4	585.1	11,325.1	0.00	0.00	0.00
21,600.0	90.27	180.53	10,041.3	-11,411.4	584.2	11,425.0	0.00	0.00	0.00
21,700.0	90.27	180.53	10,040.8	-11,511.4	583.3	11,524.9	0.00	0.00	0.00
21,800.0	90.27	180.53	10,040.4	-11,611.4	582.3	11,624.8	0.00	0.00	0.00
21,900.0	90.27	180.53	10,039.9	-11,711.4	581.4	11,724.7	0.00	0.00	0.00
22,000.0	90.27	180.53	10,039.4	-11,811.4	580.5	11,824.6	0.00	0.00	0.00
22,100.0	90.27	180.53	10,039.0	-11,911.4	579.6	11,924.5	0.00	0.00	0.00
22,200.0	90.27	180.53	10,038.5	-12,011.4	578.7	12,024.4	0.00	0.00	0.00
22,300.0	90.27	180.53	10,038.0	-12,111.4	577.7	12,124.3	0.00	0.00	0.00
22,400.0	90.27	180.53	10,037.6	-12,211.4	576.8	12,224.2	0.00	0.00	0.00
22,500.0	90.27	180.53	10,037.1	-12,311.4	575.9	12,324.1	0.00	0.00	0.00
22,600.0	90.27	180.53	10,036.7	-12,411.4	575.0	12,424.0	0.00	0.00	0.00
22,700.0	90.27	180.53	10,036.2	-12,511.3	574.1	12,523.9	0.00	0.00	0.00
22,800.0	90.27	180.53	10,035.7	-12,611.3	573.1	12,623.8	0.00	0.00	0.00
22,900.0	90.27	180.53	10,035.3	-12,711.3	572.2	12,723.7	0.00	0.00	0.00
23,000.0	90.27	180.53	10,034.8	-12,811.3	571.3	12,823.6	0.00	0.00	0.00
23,100.0	90.27	180.53	10,034.3	-12,911.3	570.4	12,923.4	0.00	0.00	0.00
23,200.0	90.27	180.53	10,033.9	-13,011.3	569.5	13,023.3	0.00	0.00	0.00
23,300.0	90.27	180.53	10,033.4	-13,111.3	568.5	13,123.2	0.00	0.00	0.00
23,400.0	90.27	180.53	10,033.0	-13,211.3	567.6	13,223.1	0.00	0.00	0.00
23,500.0	90.27	180.53	10,032.5	-13,311.3	566.7	13,323.0	0.00	0.00	0.00
23,600.0	90.27	180.53	10,032.0	-13,411.3	565.8	13,422.9	0.00	0.00	0.00
23,700.0	90.27	180.53	10,031.6	-13,511.3	564.9	13,522.8	0.00	0.00	0.00
23,800.0	90.27	180.53	10,031.1	-13,611.3	563.9	13,622.7	0.00	0.00	0.00
23,900.0	90.27	180.53	10,030.6	-13,711.3	563.0	13,722.6	0.00	0.00	0.00
24,000.0	90.27	180.53	10,030.2	-13,811.3	562.1	13,822.5	0.00	0.00	0.00
24,100.0	90.27	180.53	10,029.7	-13,911.3	561.2	13,922.4	0.00	0.00	0.00
24,200.0	90.27	180.53	10,029.3	-14,011.3	560.2	14,022.3	0.00	0.00	0.00
24,300.0	90.27	180.53	10,028.8	-14,111.3	559.3	14,122.2	0.00	0.00	0.00
24,400.0	90.27	180.53	10,028.3	-14,211.3	558.4	14,222.1	0.00	0.00	0.00
24,500.0	90.27	180.53	10,027.9	-14,311.2	557.5	14,322.0	0.00	0.00	0.00
24,600.0	90.27	180.53	10,027.4	-14,411.2	556.6	14,421.9	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
24,700.0	90.27	180.53	10,026.9	-14,511.2	555.6	14,521.8	0.00	0.00	0.00
24,800.0	90.27	180.53	10,026.5	-14,611.2	554.7	14,621.7	0.00	0.00	0.00
24,900.0	90.27	180.53	10,026.0	-14,711.2	553.8	14,721.6	0.00	0.00	0.00
25,000.0	90.27	180.53	10,025.6	-14,811.2	552.9	14,821.5	0.00	0.00	0.00
25,100.0	90.27	180.53	10,025.1	-14,911.2	552.0	14,921.4	0.00	0.00	0.00
25,200.0	90.27	180.53	10,024.6	-15,011.2	551.0	15,021.3	0.00	0.00	0.00
25,300.0	90.27	180.53	10,024.2	-15,111.2	550.1	15,121.2	0.00	0.00	0.00
25,400.0	90.27	180.53	10,023.7	-15,211.2	549.2	15,221.1	0.00	0.00	0.00
25,500.0	90.27	180.53	10,023.2	-15,311.2	548.3	15,321.0	0.00	0.00	0.00
25,551.7	90.27	180.53	10,023.0	-15,362.9	547.8	15,372.7	0.00	0.00	0.00
TD at 25551.7									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP(ROCK JELLY FE - plan misses target center by 1.9usft at 25421.5usft MD (10023.6 TVD, -15232.7 N, 549.0 E) - Point	0.00	0.00	10,023.0	-15,232.7	547.2	376,963.00	611,448.00	32° 2' 9.153 N	103° 58' 25.242 W
PBHL(ROCK JELLY F - plan hits target center - Rectangle (sides W100.0 H5,075.0 D20.0)	0.27	0.53	10,023.0	-15,362.9	547.8	376,832.80	611,448.60	32° 2' 7.864 N	103° 58' 25.240 W
POI#2(ROCK JELLY I - plan hits target center - Rectangle (sides W100.0 H5,351.0 D20.0)	0.27	0.43	10,046.5	-10,283.4	594.6	381,912.34	611,495.38	32° 2' 58.132 N	103° 58' 24.500 W
POI#1(ROCK JELLY I - plan hits target center - Rectangle (sides W100.0 H5,300.0 D20.0)	0.27	358.25	10,071.3	-4,941.5	632.6	387,254.20	611,533.38	32° 3' 50.997 N	103° 58' 23.852 W
FTP(ROCK JELLY FE - plan misses target center by 88.2usft at 10149.4usft MD (10016.5 TVD, 23.1 N, 480.8 E) - Circle (radius 50.0)	0.00	0.00	10,093.0	67.0	478.1	392,262.70	611,378.90	32° 4' 40.568 N	103° 58' 25.453 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2800	2799	9	13	Start 4951.9 hold at 2800.0 MD
7752	7724	293	446	Start Drop -1.00
8352	8323	310	472	Start 1196.8 hold at 8351.9 MD
9549	9520	310	472	Start DLS 10.00 TFO 178.25
10,451	10,093	-265	490	Start 4678.4 hold at 10451.4 MD
15,130	10,071	-4941	633	Start DLS 2.00 TFO 89.97
15,239	10,071	-5051	634	Start 5233.0 hold at 15238.9 MD
20,472	10,047	-10,283	595	Start DLS 2.00 TFO 90.55
20,477	10,046	-10,288	595	Start 5074.9 hold at 20476.8 MD
25,552	10,023	-15,363	548	TD at 25551.7

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.4usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.4usft (P84)
Well:	ROCK JELLY FED COM #710H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

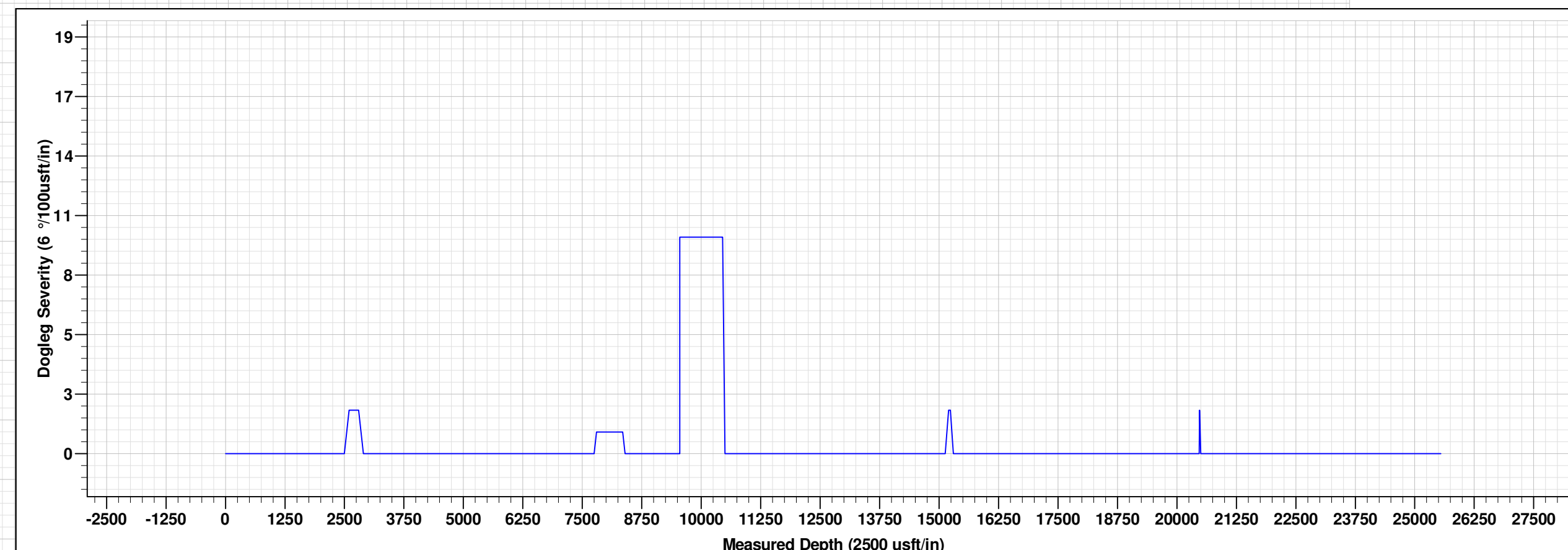
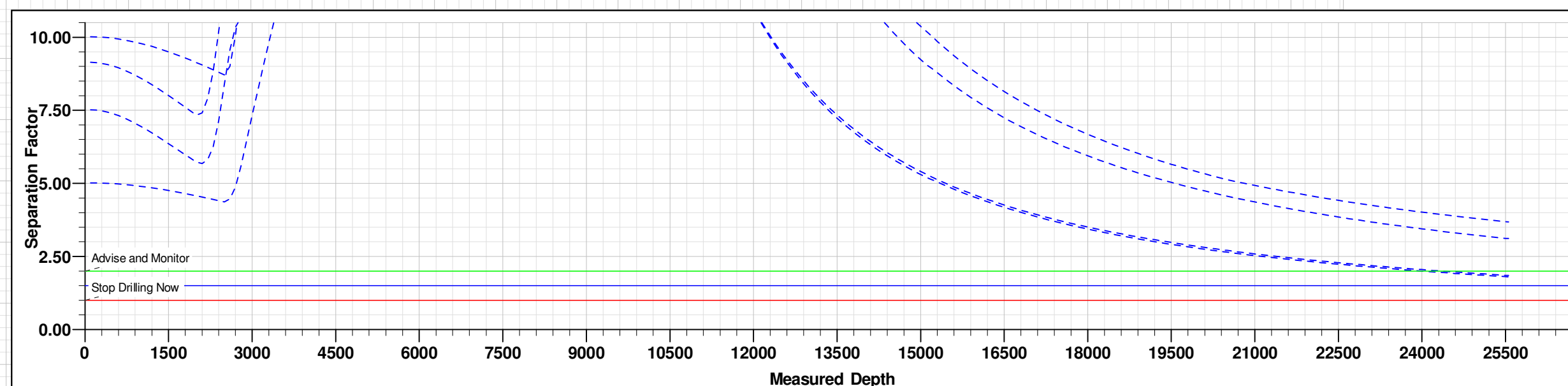
Checked By: _____	Approved By: _____	Date: _____
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WELL DETAILS: ROCK JELLY FED COM #710H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	392195.70	610900.80	32° 4' 39.921 N	103° 58' 31.012 W

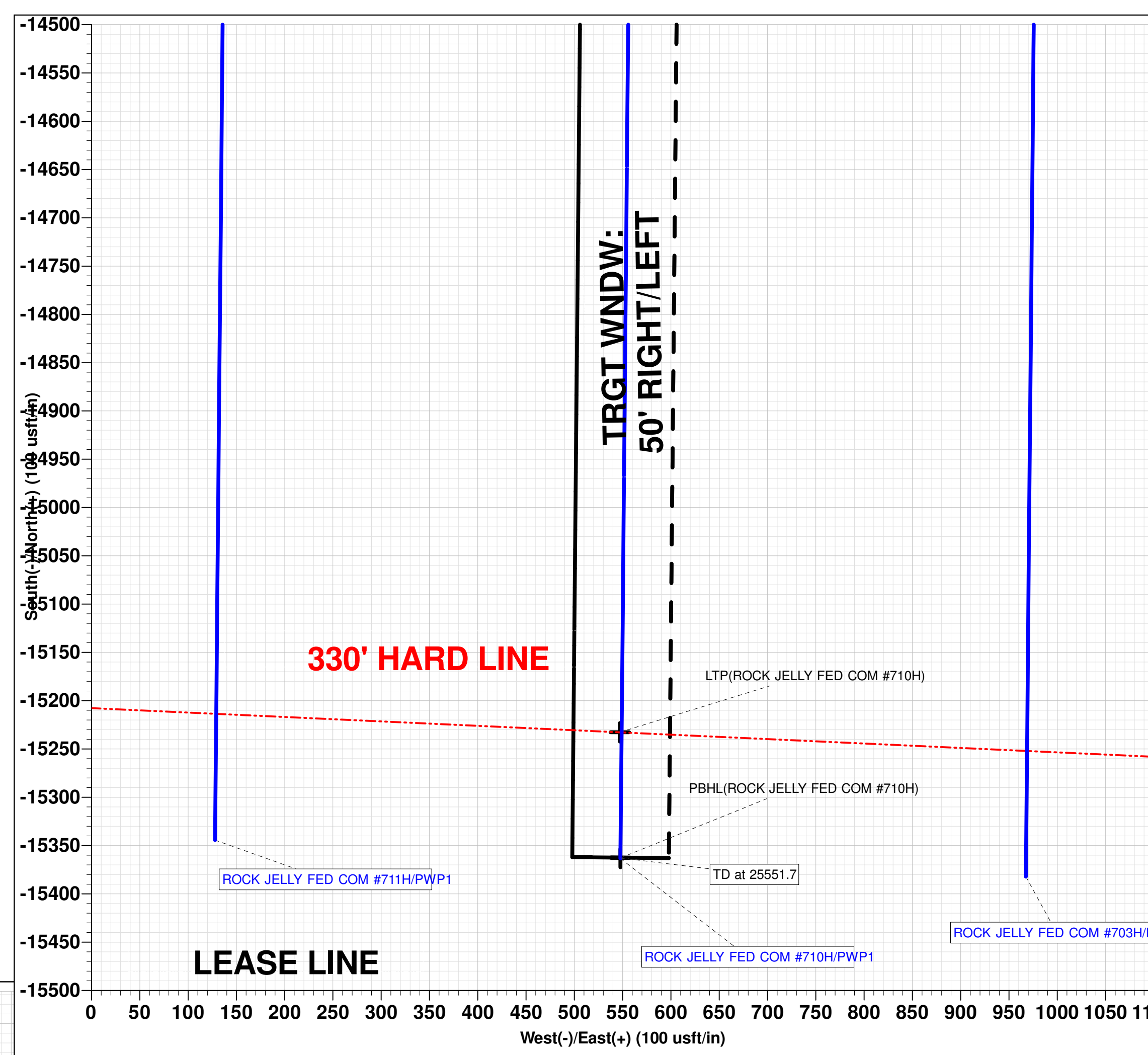
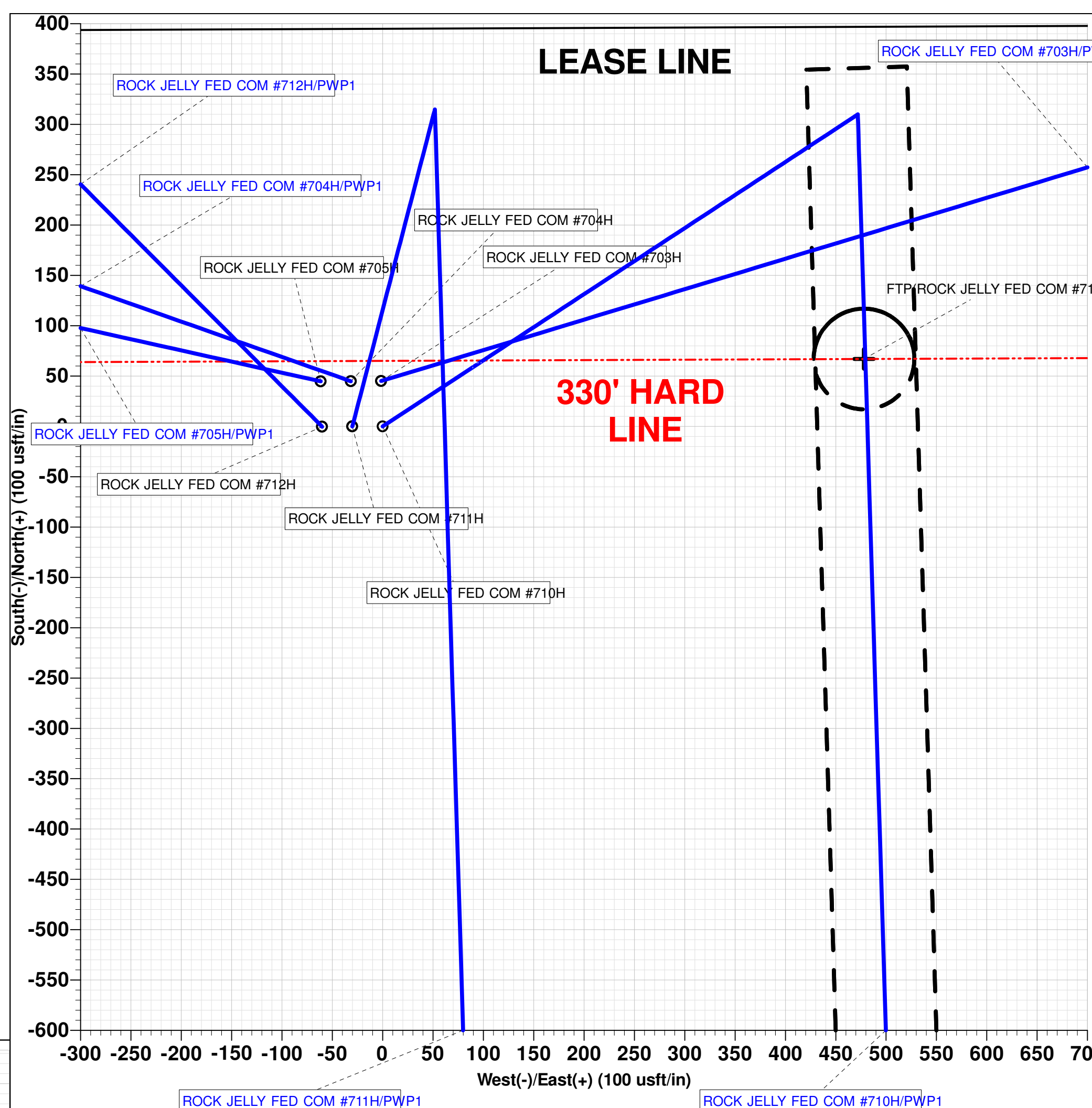
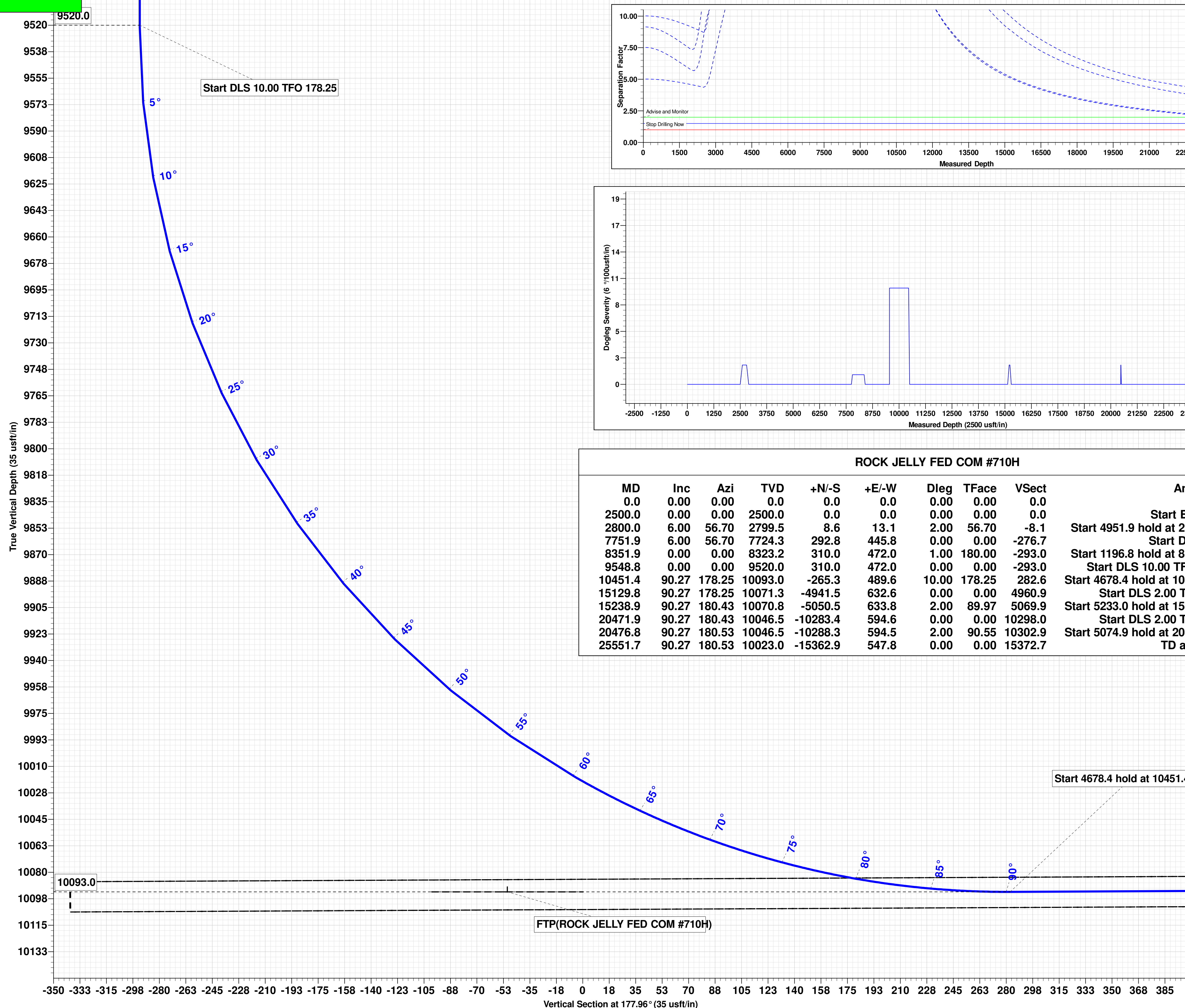
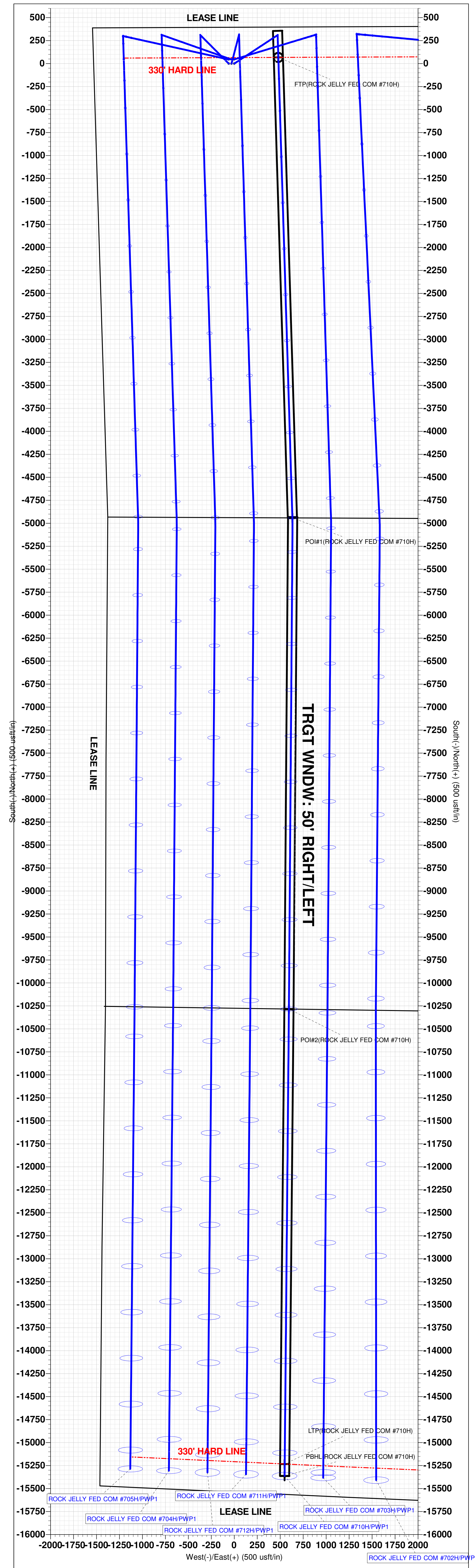
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP(ROCK JELLY FED COM #710H)	10023.0	-15232.7	547.2	376963.00	611448.00	32° 2' 9.153 N	103° 58' 25.242 W
PBHL(ROCK JELLY FED COM #710H)	10023.0	-15362.9	547.8	376832.80	611448.60	32° 2' 7.864 N	103° 58' 25.240 W
POI#2(ROCK JELLY FED COM #710H)	10046.5	-10283.4	594.6	381912.34	611495.37	32° 2' 58.132 N	103° 58' 24.500 W
POI#1(ROCK JELLY FED COM #710H)	10071.3	-4941.5	632.6	387254.21	611533.37	32° 3' 50.997 N	103° 58' 23.852 W
FTP(ROCK JELLY FED COM #710H)	10093.0	67.0	478.1	392262.70	611378.90	32° 4' 40.568 N	103° 58' 25.453 W

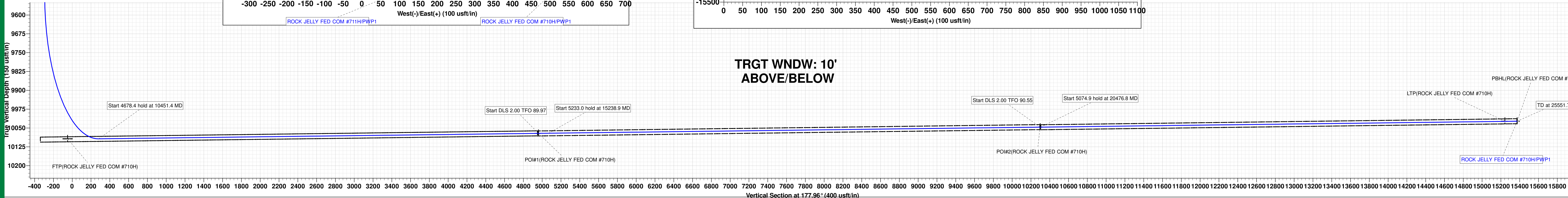


ROCK JELLY FED COM #710H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2800.0	6.00	56.70	2799.5	8.6	13.1	2.00	56.70	-8.1	Start 4951.9 hold at 2800.0 MD
7751.9	6.00	56.70	7724.3	292.8	445.8	0.00	0.00	-276.7	Start Drop -1.00
8351.9	0.00	0.00	8323.2	310.0	472.0	1.00	180.00	-293.0	Start 1196.8 hold at 8351.9 MD
9548.8	0.00	0.00	9520.0	310.0	472.0	0.00	0.00	-293.0	Start DLS 10.00 TFO 178.25
10451.4	90.27	178.25	10093.0	-265.3	489.6	10.00	178.25	282.6	Start 4678.4 hold at 10451.4 MD
15129.8	90.27	178.25	10071.3	-4941.5	632.6	0.00	0.00	4960.9	Start DLS 2.00 TFO 89.97
15238.9	90.27	180.43	10070.8	-5050.5	633.8	2.00	89.97	5069.9	Start 5233.0 hold at 15238.9 MD
20471.9	90.27	180.43	10046.5	-10283.4	594.6	0.00	0.00	10298.0	Start DLS 2.00 TFO 90.55
20476.8	90.27	180.53	10046.5	-10288.3	594.5	2.00	90.55	10302.9	Start 5074.9 hold at 20476.8 MD
25551.7	90.27	180.53	10023.0	-15362.9	547.8	0.00	0.00	15372.7	TD at 25551.7



TRGT WNDW: 10' ABOVE/BELOW



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM0138834
LOCATION:	Section 3, T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Rock Jelly Fed Com 710H
SURFACE HOLE FOOTAGE:	395'N & 1530'W
BOTTOM HOLE FOOTAGE:	200'S & 2010'W

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
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **535** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) 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.
2. 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.**
- ❖ 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.

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 surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
3. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - a. 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.
 - b. Manufacturer representative shall install the test plug for the initial BOP test.
 - c. 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.
 - d. 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.
- 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.

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

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(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
 - Notify the BLM when moving in and removing the Spudder Rig.

- 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.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 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-P 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
- a. 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 when specified), 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).
 - b. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. 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.
 - e. The results of the test shall be reported to the appropriate BLM office.

- f. 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.
- g. 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.
- h. 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 Onshore Order No. 2.

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.

ZS 102522

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 190763

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 190763
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require administrative order for non-standard spacing unit	3/7/2023
kpickford	Notify OCD 24 hours prior to casing & cement	3/7/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/7/2023
kpickford	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	3/7/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/7/2023
kpickford	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	3/7/2023