

Form 3160-3
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM013997
1b. Type of Well: ☒ Oil Well ☒ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator COG OPERATING LLC		8. Lease Name and Well No. ROCK JELLY FEDERAL COM 708H
3a. Address 600 West Illinois Ave, Midland, TX 79701	3b. Phone No. (include area code) (432) 683-7443	9. API Well No. 30-015-53475
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 1 / 255 FNL / 1055 FEL / LAT 32.07827 / LONG -103.96699 At proposed prod. zone SESE / 200 FSL / 1170 FEL / LAT 32.03548 / LONG -103.966879		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
14. Distance in miles and direction from nearest town or post office* 12 miles		12. County or Parish EDDY
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet		13. State NM
16. No of acres in lease 1920.0		17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 420 feet		20. BLM/BIA Bond No. in file FED:
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2977 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 02/24/2022
Title Regulatory Advisor		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 02/21/2023
Title Assistant Field Manager Lands & Minerals		
Office Carlsbad Field Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 02/21/2023

Additional Operator Remarks

Location of Well

0. SHL: LOT 1 / 255 FNL / 1055 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.07827 / LONG: -103.96699 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 1319 FSL / 1170 FEL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.056885 / LONG: -103.967117 (TVD: 10344 feet, MD: 18007 feet)

PPP: NENE / 1 FNL / 1170 FEL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.064247 / LONG: -103.967198 (TVD: 10357 feet, MD: 15367 feet)

PPP: NESE / 1319 FSL / 1170 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.071606 / LONG: -103.96728 (TVD: 10369 feet, MD: 12727 feet)

PPP: LOT 1 / 330 FNL / 1170 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.078064 / LONG: -103.967351 (TVD: 10302 feet, MD: 10416 feet)

BHL: SESE / 200 FSL / 1170 FEL / TWSP: 26S / RANGE: 29E / SECTION: 15 / LAT: 32.03548 / LONG: -103.966879 (TVD: 10308 feet, MD: 25935 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- 53475	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329756	Property Name ROCK JELLY FEDERAL COM	Well Number 708H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2977.7'

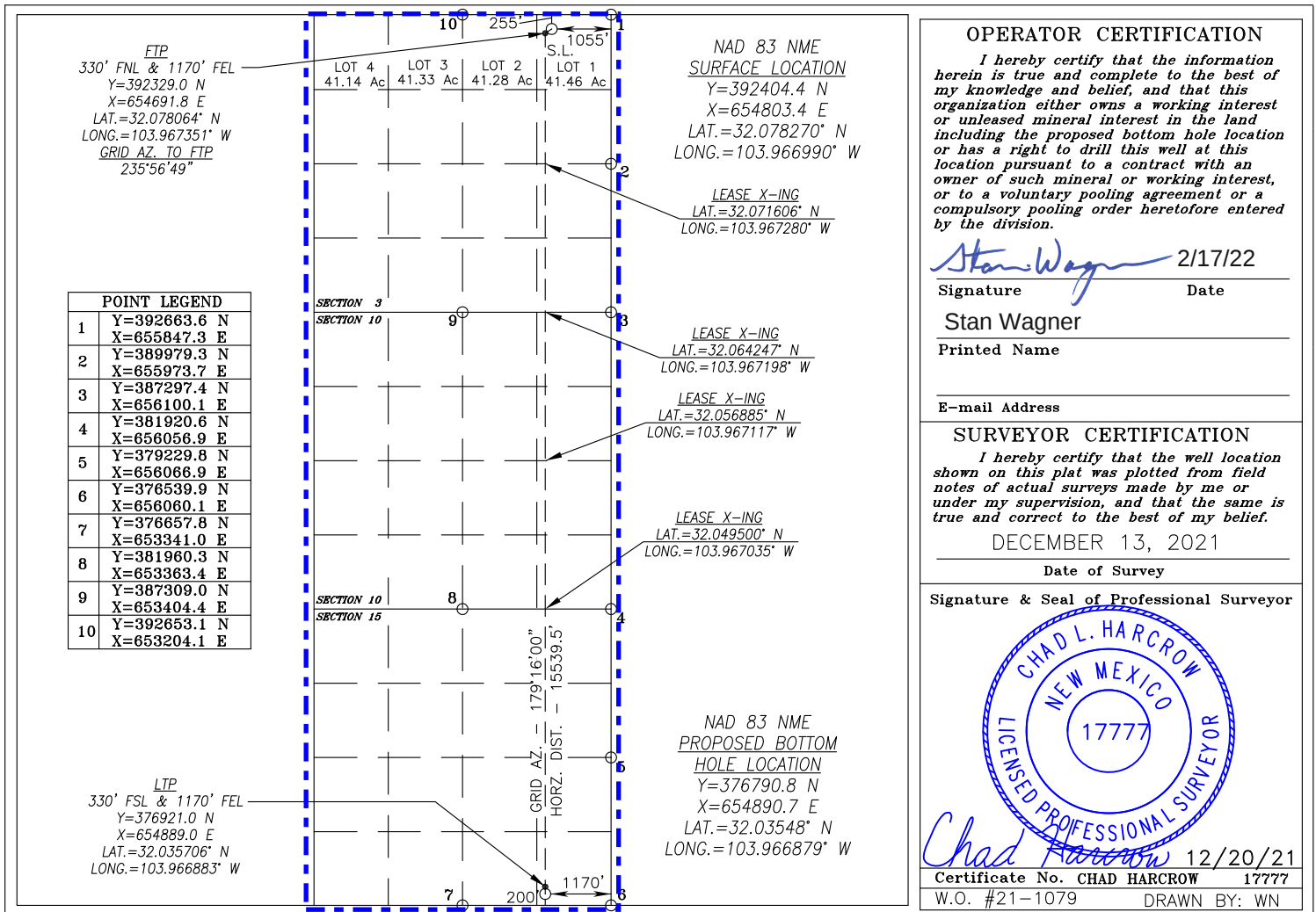
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	26-S	29-E		255	NORTH	1055	EAST	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
P	15	26-S	29-E		200	SOUTH	1170	EAST	EDDY
Dedicated Acres 1920	Joint or Infill	Consolidation Code	Order No.						

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 706H	30-015-	1-3-26S-29E	210 FNL & 1025 FEL	± 1260	± 5580	± 5000
Rock Jelly Fed Com 707H	30-015-	1-3-26S-29E	255 FNL & 1025 FEL	± 1260	± 5580	± 5000
Rock Jelly Fed Com 708H	30-015-	1-3-26S-29E	255 FNL & 1055 FEL	± 1260	± 5580	± 5000
Rock Jelly Fed Com 709H	30-015-	1-3-26S-29E	255 FNL & 1085 FEL	± 1260	± 5580	± 5000

IV. Central Delivery Point Name: Rock Jelly Fed Com East CTB 980 FNL & 2100 FEL 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
706H, 707H, 708H, 709H						

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

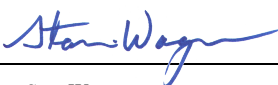
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 708H

1. Geologic Formations

TVD of target	10,378' EOL	Pilot hole depth	NA
MD at TD:	25,935'	Deepest expected fresh water:	78'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	553	Water	
Top of Salt	698	Salt	
Base of Salt	2821	Salt	
Lamar	3047	Salt Water	
Bell Canyon	3089	Salt Water	
Cherry Canyon	3946	Oil/Gas	
Brushy Canyon	5236	Oil/Gas	
Bone Spring Lime	6803	Oil/Gas	
1st Bone Spring Sand	7766	Oil/Gas	
2nd Bone Spring Sand	8368	Oil/Gas	
3rd Bone Spring Sand	9663	Oil/Gas	
Wolfcamp A	10028	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	1.28	3.49	3.53
8.750"	7000	9700	7.625"	29.7	P110 RY	W 513	1.62	1.71	3.26	1.96
6.75"	0	9200	5.5"	23	P110 RY	TXP BTC	2.43	2.87	3.45	3.42
6.75"	9200	25,935	5.5"	23	P110 RY	W 441	2.40	2.89	3.47	3.15
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 708H

	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 708H

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	690	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	427	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1578	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	9,200'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Rock Jelly Federal Com 708H

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 708H

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 708H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6750 psi at 10378' 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

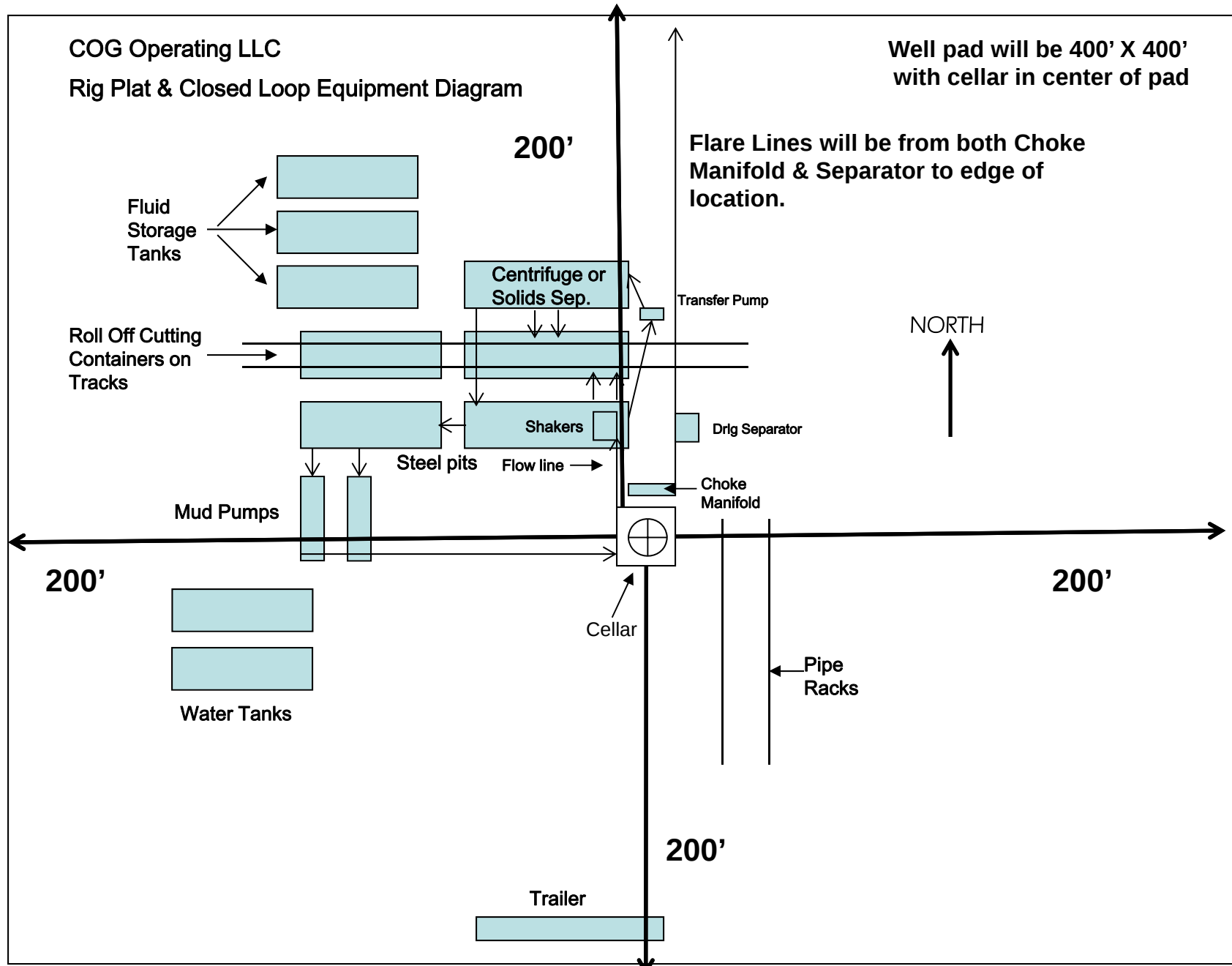


Exhibit 1

"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 #708H

OWB

PWP1

Anticollision Report

18 January, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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	9,814.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,814.0	25,935.7	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 #701H - OWB - PWP1	1,916.6	1,916.9	45.1	37.3	5.823	CC
ROCK JELLY FED COM #701H - OWB - PWP1	2,000.0	2,000.3	45.1	37.2	5.719	ES
ROCK JELLY FED COM #701H - OWB - PWP1	25,900.0	25,952.6	839.9	567.8	3.087	SF
ROCK JELLY FED COM #702H - OWB - PWP1	1,916.6	1,916.7	55.3	47.9	7.515	CC
ROCK JELLY FED COM #702H - OWB - PWP1	2,000.0	2,000.0	55.3	47.8	7.402	ES, SF
ROCK JELLY FED COM #706H - OWB - PWP1	1,916.5	1,917.1	53.0	45.6	7.141	CC
ROCK JELLY FED COM #706H - OWB - PWP1	2,000.0	2,000.0	53.0	45.5	7.031	ES
ROCK JELLY FED COM #706H - OWB - PWP1	25,935.7	25,996.5	839.9	567.3	3.081	SF
ROCK JELLY FED COM #707H - OWB - PWP1	2,416.5	2,416.9	30.0	23.2	4.385	CC
ROCK JELLY FED COM #707H - OWB - PWP1	2,500.0	2,500.0	30.0	23.1	4.350	ES
ROCK JELLY FED COM #707H - OWB - PWP1	25,935.7	25,704.9	483.8	216.6	1.810	Advise and Monitor, SF
ROCK JELLY FED COM #709H - OWB - PWP1	2,500.0	2,499.8	30.0	23.1	4.349	CC, ES
ROCK JELLY FED COM #709H - OWB - PWP1	25,918.1	25,678.7	488.6	222.5	1.836	Advise and Monitor, 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ROCK JELLY FEDERAL PROJECT (ATLAS 2629)						
ROCK JELLY FED COM #701H - OWB - PWP1	25,935.7	25,952.6	840.7	568.7	3.091	
ROCK JELLY FED COM #702H - OWB - PWP1	25,935.7	25,738.0				Out of Range @TD
ROCK JELLY FED COM #706H - OWB - PWP1	25,935.7	25,996.5	839.9	567.3	3.081	SF
ROCK JELLY FED COM #707H - OWB - PWP1	25,935.7	25,704.9	483.8	216.6	1.810	Advise and Monitor, SF
ROCK JELLY FED COM #709H - OWB - PWP1	25,935.7	25,678.8	488.9	222.8	1.837	Advise and Monitor

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9871-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
0.0	0.0	0.3	0.3	3.0	3.0	-2.80	45.0	-2.2	45.1				
100.0	100.0	100.3	100.3	3.0	3.0	-2.80	45.0	-2.2	45.1	39.1	6.00	7.508	
200.0	200.0	200.3	200.3	3.0	3.0	-2.80	45.0	-2.2	45.1	39.0	6.01	7.495	
300.0	300.0	300.3	300.3	3.0	3.0	-2.80	45.0	-2.2	45.1	39.0	6.03	7.468	
400.0	400.0	400.3	400.3	3.0	3.0	-2.80	45.0	-2.2	45.1	39.0	6.07	7.428	
500.0	500.0	500.3	500.3	3.1	3.1	-2.80	45.0	-2.2	45.1	38.9	6.11	7.374	
600.0	600.0	600.3	600.3	3.1	3.1	-2.80	45.0	-2.2	45.1	38.9	6.16	7.308	
700.0	700.0	700.3	700.3	3.1	3.1	-2.80	45.0	-2.2	45.1	38.8	6.23	7.231	
800.0	800.0	800.3	800.3	3.2	3.2	-2.80	45.0	-2.2	45.1	38.7	6.31	7.144	
900.0	900.0	900.3	900.3	3.2	3.2	-2.80	45.0	-2.2	45.1	38.7	6.39	7.047	
1,000.0	1,000.0	1,000.3	1,000.3	3.2	3.2	-2.80	45.0	-2.2	45.1	38.6	6.49	6.943	
1,100.0	1,100.0	1,100.3	1,100.3	3.3	3.3	-2.80	45.0	-2.2	45.1	38.5	6.59	6.833	
1,200.0	1,200.0	1,200.3	1,200.3	3.4	3.4	-2.80	45.0	-2.2	45.1	38.3	6.71	6.717	
1,300.0	1,300.0	1,300.3	1,300.3	3.4	3.4	-2.80	45.0	-2.2	45.1	38.2	6.83	6.598	
1,400.0	1,400.0	1,400.3	1,400.3	3.5	3.5	-2.80	45.0	-2.2	45.1	38.1	6.96	6.475	
1,500.0	1,500.0	1,500.3	1,500.3	3.5	3.5	-2.80	45.0	-2.2	45.1	38.0	7.10	6.350	
1,600.0	1,600.0	1,600.3	1,600.3	3.6	3.6	-2.80	45.0	-2.2	45.1	37.8	7.24	6.223	
1,700.0	1,700.0	1,700.3	1,700.3	3.7	3.7	-2.80	45.0	-2.2	45.1	37.7	7.39	6.096	
1,800.0	1,800.0	1,800.3	1,800.3	3.8	3.8	-2.80	45.0	-2.2	45.1	37.5	7.55	5.970	
1,900.0	1,900.0	1,900.3	1,900.3	3.9	3.9	-2.80	45.0	-2.2	45.1	37.3	7.71	5.844	
1,916.6	1,916.6	1,916.9	1,916.9	3.9	3.9	-2.80	45.0	-2.2	45.1	37.3	7.74	5.823	CC
2,000.0	2,000.0	2,000.3	2,000.3	3.9	3.9	-2.80	45.0	-2.2	45.1	37.2	7.88	5.719	ES
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-4.97	45.2	-3.9	45.4	37.4	8.02	5.661	
2,200.0	2,200.0	2,199.4	2,199.3	4.1	4.0	-11.19	45.9	-9.1	46.8	38.7	8.11	5.767	
2,300.0	2,300.0	2,298.4	2,297.8	4.2	4.1	-20.52	47.0	-17.6	50.3	42.1	8.15	6.168	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9871-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 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)			
2,400.0	2,400.0	2,396.6	2,395.4	4.3	4.1	-31.18	48.6	-29.4	57.0	48.9	8.09	7.040	
2,500.0	2,500.0	2,493.9	2,491.5	4.4	4.2	-41.26	50.5	-44.3	67.8	59.8	7.98	8.494	
2,600.0	2,600.0	2,592.5	2,588.6	4.5	4.2	-14.88	52.7	-61.3	80.0	72.1	7.89	10.144	
2,700.0	2,699.8	2,691.5	2,686.0	4.6	4.3	-21.64	55.0	-78.3	90.3	82.4	7.83	11.524	
2,750.0	2,749.7	2,741.0	2,734.8	4.6	4.3	-24.79	56.1	-86.8	94.6	86.8	7.81	12.116	
2,800.0	2,799.5	2,790.6	2,783.6	4.7	4.3	-27.79	57.2	-95.4	98.9	91.1	7.79	12.689	
2,900.0	2,899.1	2,889.7	2,881.2	4.7	4.4	-33.07	59.4	-112.4	108.0	100.3	7.77	13.897	
3,000.0	2,998.7	2,988.8	2,978.8	4.8	4.5	-37.50	61.7	-129.5	118.0	110.2	7.78	15.159	
3,100.0	3,098.4	3,087.9	3,076.5	4.9	4.5	-41.23	63.9	-146.6	128.5	120.7	7.82	16.446	
3,200.0	3,198.0	3,187.0	3,174.1	5.0	4.6	-44.38	66.1	-163.6	139.5	131.7	7.87	17.741	
3,300.0	3,297.6	3,286.2	3,271.7	5.1	4.7	-47.07	68.4	-180.7	150.9	143.0	7.93	19.028	
3,400.0	3,397.2	3,385.3	3,369.3	5.2	4.8	-49.38	70.6	-197.8	162.5	154.5	8.01	20.298	
3,500.0	3,496.8	3,484.4	3,466.9	5.3	4.8	-51.38	72.9	-214.8	174.4	166.3	8.09	21.546	
3,600.0	3,596.4	3,583.5	3,564.5	5.4	4.9	-53.12	75.1	-231.9	186.5	178.3	8.19	22.764	
3,700.0	3,696.1	3,682.7	3,662.1	5.5	5.0	-54.65	77.3	-249.0	198.7	190.4	8.29	23.951	
3,800.0	3,795.7	3,781.8	3,759.8	5.6	5.1	-56.01	79.6	-266.0	211.0	202.6	8.40	25.104	
3,900.0	3,895.3	3,880.9	3,857.4	5.7	5.2	-57.21	81.8	-283.1	223.4	214.9	8.52	26.220	
4,000.0	3,994.9	3,980.0	3,955.0	5.8	5.3	-58.29	84.0	-300.2	235.9	227.3	8.64	27.300	
4,100.0	4,094.5	4,079.1	4,052.6	5.9	5.4	-59.26	86.3	-317.2	248.5	239.8	8.77	28.341	
4,200.0	4,194.2	4,178.3	4,150.2	6.0	5.5	-60.13	88.5	-334.3	261.2	252.3	8.90	29.345	
4,300.0	4,293.8	4,277.4	4,247.8	6.1	5.6	-60.92	90.7	-351.4	273.9	264.8	9.04	30.311	
4,400.0	4,393.4	4,376.5	4,345.5	6.2	5.7	-61.65	93.0	-368.4	286.6	277.5	9.18	31.240	
4,500.0	4,493.0	4,475.6	4,443.1	6.3	5.8	-62.31	95.2	-385.5	299.4	290.1	9.32	32.132	
4,600.0	4,592.6	4,574.7	4,540.7	6.5	5.9	-62.92	97.4	-402.6	312.3	302.8	9.47	32.987	
4,700.0	4,692.3	4,673.9	4,638.3	6.6	6.0	-63.48	99.7	-419.6	325.1	315.5	9.62	33.807	
4,800.0	4,791.9	4,773.0	4,735.9	6.7	6.1	-63.99	101.9	-436.7	338.0	328.2	9.77	34.592	
4,815.9	4,807.7	4,788.7	4,751.4	6.7	6.1	-64.07	102.3	-439.4	340.1	330.3	9.80	34.714	
4,900.0	4,891.6	4,872.1	4,833.5	6.8	6.2	-64.48	104.1	-453.8	351.2	341.3	9.93	35.364	
5,000.0	4,991.3	4,971.1	4,931.0	6.9	6.4	-64.72	106.4	-470.8	365.1	355.0	10.10	36.158	
5,100.0	5,091.2	5,070.0	5,028.4	7.0	6.5	-64.72	108.6	-487.9	379.8	369.5	10.27	36.981	
5,200.0	5,191.2	5,168.8	5,125.7	7.1	6.6	-64.50	110.8	-504.9	395.2	384.8	10.45	37.828	
5,300.0	5,291.2	5,267.4	5,222.8	7.2	6.7	-64.10	113.1	-521.8	411.4	400.7	10.63	38.686	
5,315.9	5,307.1	5,283.0	5,238.2	7.3	6.7	-98.68	113.4	-524.5	414.0	403.4	10.66	38.827	
5,400.0	5,391.2	5,365.9	5,319.8	7.4	6.8	-98.13	115.3	-538.8	428.1	417.3	10.82	39.579	
5,500.0	5,491.2	5,464.4	5,416.8	7.5	6.9	-97.53	117.5	-555.8	444.9	433.9	11.00	40.449	
5,600.0	5,591.2	5,562.8	5,513.8	7.6	7.1	-96.98	119.7	-572.7	461.7	450.5	11.18	41.291	
5,700.0	5,691.2	5,661.3	5,610.8	7.7	7.2	-96.46	121.9	-589.7	478.5	467.2	11.36	42.106	
5,800.0	5,791.2	5,759.8	5,707.7	7.8	7.3	-95.98	124.2	-606.6	495.4	483.9	11.55	42.897	
5,900.0	5,891.2	5,858.3	5,804.7	7.9	7.4	-95.53	126.4	-623.6	512.3	500.6	11.73	43.662	
6,000.0	5,991.2	5,956.8	5,901.7	8.1	7.6	-95.10	128.6	-640.5	529.3	517.3	11.92	44.404	
6,100.0	6,091.2	6,055.2	5,998.7	8.2	7.7	-94.71	130.8	-657.5	546.2	534.1	12.11	45.124	
6,200.0	6,191.2	6,153.7	6,095.7	8.3	7.8	-94.33	133.0	-674.4	563.2	550.9	12.29	45.821	
6,300.0	6,291.2	6,252.2	6,192.7	8.4	8.0	-93.98	135.3	-691.4	580.3	567.8	12.48	46.497	
6,400.0	6,391.2	6,350.7	6,289.7	8.5	8.1	-93.65	137.5	-708.4	597.3	584.6	12.67	47.152	
6,500.0	6,491.2	6,449.2	6,386.6	8.7	8.2	-93.34	139.7	-725.3	614.4	601.5	12.86	47.788	
6,600.0	6,591.2	6,547.7	6,483.6	8.8	8.4	-93.05	141.9	-742.3	631.4	618.4	13.04	48.405	
6,700.0	6,691.2	6,646.1	6,580.6	8.9	8.5	-92.77	144.2	-759.2	648.5	635.3	13.23	49.003	
6,800.0	6,791.2	6,744.6	6,677.6	9.0	8.7	-92.50	146.4	-776.2	665.6	652.2	13.42	49.584	
6,900.0	6,891.2	6,843.1	6,774.6	9.1	8.8	-92.25	148.6	-793.1	682.7	669.1	13.61	50.147	
7,000.0	6,991.2	6,941.6	6,871.6	9.3	8.9	-92.01	150.8	-810.1	699.9	686.1	13.81	50.694	
7,100.0	7,091.2	7,040.1	6,968.5	9.4	9.1	-91.78	153.0	-827.1	717.0	703.0	14.00	51.225	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9871-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		
7,200.0	7,191.2	7,138.5	7,065.5	9.5	9.2	-91.56	155.3	-844.0	734.2	720.0	14.19	51.741		
7,300.0	7,291.2	7,237.0	7,162.5	9.6	9.4	-91.36	157.5	-861.0	751.3	736.9	14.38	52.241		
7,400.0	7,391.2	7,335.5	7,259.5	9.8	9.5	-91.16	159.7	-877.9	768.5	753.9	14.57	52.728		
7,500.0	7,491.2	7,449.4	7,371.9	9.9	9.7	-90.95	162.1	-896.4	784.7	770.0	14.74	53.242		
7,600.0	7,591.2	7,564.1	7,485.4	10.0	9.9	-90.78	164.3	-912.8	799.0	784.1	14.91	53.597		
7,700.0	7,691.2	7,679.3	7,599.7	10.1	10.0	-90.63	166.1	-927.0	811.3	796.2	15.08	53.794		
7,800.0	7,791.2	7,795.1	7,714.9	10.3	10.2	-90.51	167.7	-939.0	821.6	806.3	15.26	53.833		
7,900.0	7,891.2	7,911.4	7,830.7	10.4	10.3	-90.42	169.0	-948.7	829.9	814.5	15.45	53.716		
8,000.0	7,991.2	8,028.0	7,947.1	10.5	10.4	-90.35	169.9	-956.0	836.2	820.6	15.65	53.444		
8,100.0	8,091.2	8,144.8	8,063.8	10.6	10.5	-90.30	170.6	-961.1	840.5	824.7	15.85	53.021		
8,200.0	8,191.2	8,261.8	8,180.8	10.7	10.6	-90.28	170.9	-963.7	842.8	826.7	16.07	52.449		
8,300.0	8,291.2	8,372.6	8,291.5	10.9	10.7	-90.27	171.0	-964.2	843.2	827.0	16.24	51.935		
8,400.0	8,391.2	8,472.6	8,391.5	11.0	10.8	-90.27	171.0	-964.2	843.2	826.9	16.34	51.614		
8,500.0	8,491.2	8,572.6	8,491.5	11.1	10.9	-90.27	171.0	-964.2	843.2	826.8	16.44	51.295		
8,600.0	8,591.2	8,672.6	8,591.5	11.2	11.0	-90.27	171.0	-964.2	843.2	826.7	16.54	50.979		
8,700.0	8,691.2	8,772.6	8,691.5	11.4	11.0	-90.27	171.0	-964.2	843.2	826.6	16.64	50.664		
8,800.0	8,791.2	8,872.6	8,791.5	11.5	11.1	-90.27	171.0	-964.2	843.2	826.5	16.75	50.353		
8,900.0	8,891.2	8,972.6	8,891.5	11.6	11.2	-90.27	171.0	-964.2	843.2	826.4	16.85	50.043		
9,000.0	8,991.2	9,072.6	8,991.5	11.8	11.3	-90.27	171.0	-964.2	843.2	826.3	16.95	49.736		
9,100.0	9,091.2	9,172.6	9,091.5	11.9	11.4	-90.27	171.0	-964.2	843.2	826.2	17.06	49.431		
9,200.0	9,191.2	9,272.6	9,191.5	12.0	11.5	-90.27	171.0	-964.2	843.2	826.0	17.16	49.129		
9,300.0	9,291.2	9,372.6	9,291.5	12.1	11.6	-90.27	171.0	-964.2	843.2	825.9	17.27	48.829		
9,400.0	9,391.2	9,472.6	9,391.5	12.3	11.7	-90.27	171.0	-964.2	843.2	825.8	17.37	48.532		
9,500.0	9,491.2	9,572.6	9,491.5	12.4	11.8	-90.27	171.0	-964.2	843.2	825.7	17.48	48.236		
9,600.0	9,591.2	9,672.6	9,591.5	12.5	11.9	-90.27	171.0	-964.2	843.2	825.6	17.59	47.944		
9,700.0	9,691.2	9,772.6	9,691.5	12.6	12.0	-90.27	171.0	-964.2	843.2	825.5	17.69	47.653		
9,800.0	9,791.2	9,872.6	9,791.6	12.8	12.1	-90.27	171.0	-964.2	843.2	825.4	17.79	47.402		
9,814.1	9,805.3	9,887.7	9,806.6	12.8	12.1	-90.29	170.8	-964.2	843.2	825.4	17.79	47.393		
9,850.0	9,841.2	9,925.9	9,844.7	12.8	12.1	92.31	168.4	-964.1	843.2	825.4	17.79	47.397		
9,900.0	9,890.9	9,979.0	9,897.3	12.8	12.1	92.18	160.9	-963.7	843.1	825.3	17.79	47.388		
9,950.0	9,939.9	10,031.8	9,948.7	12.8	12.1	92.05	148.6	-963.1	843.0	825.2	17.80	47.357		
10,000.0	9,987.9	10,084.5	9,998.5	12.8	12.1	91.89	131.8	-962.4	842.9	825.1	17.82	47.297		
10,050.0	10,034.6	10,136.9	10,046.4	12.8	12.2	91.72	110.5	-961.4	842.8	825.0	17.86	47.202		
10,100.0	10,079.5	10,189.0	10,091.9	12.9	12.2	91.54	85.1	-960.2	842.7	824.8	17.91	47.063		
10,150.0	10,122.3	10,240.9	10,134.7	12.9	12.2	91.34	55.9	-958.8	842.7	824.7	17.98	46.870		
10,200.0	10,162.7	10,292.5	10,174.4	12.9	12.3	91.14	23.1	-957.2	842.6	824.5	18.08	46.613		
10,250.0	10,200.3	10,343.8	10,210.9	13.0	12.3	90.93	-13.0	-955.5	842.5	824.3	18.20	46.284		
10,300.0	10,235.0	10,394.8	10,243.8	13.0	12.4	90.71	-51.9	-953.7	842.4	824.1	18.36	45.876		
10,350.0	10,266.4	10,445.4	10,272.9	13.1	12.5	90.48	-93.3	-951.8	842.4	823.8	18.56	45.386		
10,400.0	10,294.3	10,495.8	10,298.1	13.1	12.5	90.26	-136.8	-949.7	842.3	823.5	18.80	44.815		
10,450.0	10,318.5	10,545.9	10,319.3	13.2	12.6	90.03	-182.2	-947.6	842.3	823.2	19.07	44.168		
10,500.0	10,338.7	10,595.7	10,336.3	13.2	12.6	89.80	-228.9	-945.4	842.3	822.9	19.38	43.454		
10,541.2	10,352.4	10,636.5	10,347.2	13.3	12.7	89.61	-268.1	-943.5	842.3	822.6	19.67	42.820		
10,550.0	10,354.9	10,645.2	10,349.2	13.3	12.7	89.57	-276.6	-943.1	842.3	822.6	19.73	42.686		
10,600.0	10,366.9	10,694.4	10,357.8	13.3	12.8	89.35	-325.0	-940.8	842.3	822.2	20.11	41.878		
10,650.0	10,374.7	10,743.4	10,362.3	13.4	12.8	89.13	-373.7	-938.5	842.3	821.8	20.52	41.047		
10,700.0	10,378.1	10,792.6	10,362.9	13.4	12.9	88.94	-422.8	-936.2	842.3	821.4	20.95	40.211		
10,716.8	10,378.3	10,809.3	10,362.8	13.4	12.9	88.93	-439.5	-935.4	842.3	821.2	21.10	39.929		
10,800.0	10,377.9	10,892.6	10,362.5	13.4	13.0	88.93	-522.7	-931.5	842.3	820.4	21.87	38.510		
10,900.0	10,377.4	10,992.6	10,362.1	13.4	13.3	88.94	-622.6	-926.8	842.2	819.4	22.89	36.792		
11,000.0	10,376.9	11,092.6	10,361.7	13.5	13.6	88.94	-722.5	-922.1	842.2	818.2	23.99	35.102		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #701H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9871-MWD+IFR1+FDIR						Rule Assigned:						Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
11,100.0	10,376.5	11,192.6	10,361.3	13.5	14.0	88.95	-822.4	-917.4	842.2	817.0	25.16	33.466			
11,200.0	10,376.0	11,292.6	10,360.9	13.6	14.4	88.95	-922.2	-912.7	842.1	815.7	26.40	31.903			
11,300.0	10,375.6	11,392.6	10,360.5	13.7	15.0	88.96	-1,022.1	-908.0	842.1	814.4	27.68	30.421			
11,400.0	10,375.1	11,492.6	10,360.1	14.0	15.5	88.96	-1,122.0	-903.3	842.0	813.0	29.01	29.025			
11,500.0	10,374.6	11,592.6	10,359.7	14.5	16.2	88.96	-1,221.9	-898.6	842.0	811.6	30.38	27.714			
11,600.0	10,374.2	11,692.6	10,359.3	15.2	16.8	88.97	-1,321.8	-893.9	841.9	810.1	31.78	26.489			
11,700.0	10,373.7	11,792.6	10,358.9	15.9	17.5	88.97	-1,421.7	-889.2	841.9	808.6	33.22	25.343			
11,800.0	10,373.2	11,892.6	10,358.5	16.6	18.2	88.98	-1,521.6	-884.5	841.8	807.1	34.68	24.274			
11,900.0	10,372.8	11,992.6	10,358.1	17.4	18.9	88.98	-1,621.5	-879.8	841.8	805.6	36.16	23.277			
12,000.0	10,372.3	12,092.6	10,357.7	18.1	19.6	88.99	-1,721.3	-875.1	841.7	804.1	37.67	22.346			
12,100.0	10,371.9	12,192.6	10,357.4	18.9	20.3	88.99	-1,821.2	-870.4	841.7	802.5	39.19	21.476			
12,200.0	10,371.4	12,292.6	10,357.0	19.7	21.1	89.00	-1,921.1	-865.7	841.6	800.9	40.73	20.664			
12,300.0	10,370.9	12,392.6	10,356.6	20.5	21.8	89.00	-2,021.0	-861.0	841.6	799.3	42.28	19.904			
12,400.0	10,370.5	12,492.6	10,356.2	21.3	22.6	89.01	-2,120.9	-856.3	841.5	797.7	43.85	19.191			
12,500.0	10,370.0	12,592.6	10,355.8	22.1	23.4	89.01	-2,220.8	-851.6	841.5	796.1	45.43	18.524			
12,600.0	10,369.5	12,692.6	10,355.4	22.9	24.1	89.01	-2,320.7	-846.9	841.4	794.4	47.02	17.897			
12,700.0	10,369.1	12,792.6	10,355.0	23.7	24.9	89.02	-2,420.6	-842.1	841.4	792.8	48.61	17.308			
12,800.0	10,368.6	12,892.6	10,354.6	24.5	25.7	89.02	-2,520.5	-837.4	841.3	791.1	50.22	16.753			
12,900.0	10,368.2	12,992.6	10,354.2	25.4	26.5	89.03	-2,620.3	-832.7	841.3	789.5	51.83	16.231			
13,000.0	10,367.7	13,092.6	10,353.8	26.2	27.3	89.03	-2,720.2	-828.0	841.2	787.8	53.45	15.738			
13,100.0	10,367.2	13,192.6	10,353.4	27.0	28.1	89.04	-2,820.1	-823.3	841.2	786.1	55.08	15.272			
13,200.0	10,366.8	13,292.6	10,353.0	27.8	28.9	89.04	-2,920.0	-818.6	841.2	784.4	56.71	14.831			
13,300.0	10,366.3	13,392.6	10,352.6	28.7	29.7	89.05	-3,019.9	-813.9	841.1	782.8	58.35	14.414			
13,400.0	10,365.9	13,492.6	10,352.2	29.5	30.5	89.05	-3,119.8	-809.2	841.1	781.1	60.00	14.018			
13,500.0	10,365.4	13,592.6	10,351.8	30.3	31.3	89.06	-3,219.7	-804.5	841.0	779.4	61.64	13.643			
13,600.0	10,364.9	13,692.6	10,351.4	31.2	32.1	89.06	-3,319.6	-799.8	841.0	777.7	63.30	13.286			
13,700.0	10,364.5	13,792.6	10,351.0	32.0	33.0	89.06	-3,419.5	-795.1	840.9	776.0	64.95	12.947			
13,800.0	10,364.0	13,892.6	10,350.6	32.8	33.8	89.07	-3,519.3	-790.4	840.9	774.3	66.61	12.623			
13,900.0	10,363.5	13,992.6	10,350.2	33.7	34.6	89.07	-3,619.2	-785.7	840.8	772.5	68.28	12.315			
14,000.0	10,363.1	14,092.6	10,349.9	34.5	35.4	89.08	-3,719.1	-781.0	840.8	770.8	69.94	12.021			
14,100.0	10,362.6	14,192.6	10,349.5	35.4	36.3	89.08	-3,819.0	-776.3	840.7	769.1	71.61	11.740			
14,200.0	10,362.2	14,292.6	10,349.1	36.2	37.1	89.09	-3,918.9	-771.6	840.7	767.4	73.28	11.472			
14,300.0	10,361.7	14,392.6	10,348.7	37.0	37.9	89.09	-4,018.8	-766.9	840.6	765.7	74.96	11.215			
14,400.0	10,361.2	14,492.6	10,348.3	37.9	38.8	89.10	-4,118.7	-762.2	840.6	763.9	76.63	10.969			
14,500.0	10,360.8	14,592.6	10,347.9	38.7	39.6	89.10	-4,218.6	-757.5	840.5	762.2	78.31	10.733			
14,600.0	10,360.3	14,692.6	10,347.5	39.6	40.4	89.11	-4,318.4	-752.8	840.5	760.5	79.99	10.507			
14,700.0	10,359.8	14,792.6	10,347.1	40.4	41.3	89.11	-4,418.3	-748.1	840.4	758.8	81.67	10.290			
14,800.0	10,359.4	14,892.6	10,346.7	41.3	42.1	89.11	-4,518.2	-743.4	840.4	757.0	83.36	10.082			
14,900.0	10,358.9	14,992.6	10,346.3	42.1	42.9	89.12	-4,618.1	-738.7	840.3	755.3	85.05	9.881			
15,000.0	10,358.5	15,092.6	10,345.9	43.0	43.8	89.12	-4,718.0	-733.9	840.3	753.6	86.73	9.688			
15,100.0	10,358.0	15,192.6	10,345.5	43.8	44.6	89.13	-4,817.9	-729.2	840.2	751.8	88.42	9.503			
15,200.0	10,357.5	15,292.6	10,345.1	44.7	45.5	89.13	-4,917.8	-724.5	840.2	750.1	90.11	9.324			
15,300.0	10,357.1	15,392.6	10,344.7	45.5	46.3	89.14	-5,017.7	-719.8	840.2	748.3	91.80	9.152			
15,378.5	10,356.7	15,471.1	10,344.4	46.2	47.0	89.14	-5,096.1	-716.1	840.1	747.0	93.13	9.020			
15,400.0	10,356.6	15,488.2	10,344.3	46.4	47.1	89.14	-5,113.2	-715.4	840.2	746.7	93.46	8.989			
15,423.9	10,356.5	15,500.0	10,344.3	46.6	47.2	89.14	-5,125.0	-714.9	840.4	746.6	93.76	8.963			
15,500.0	10,356.1	15,565.5	10,344.0	47.2	47.7	89.15	-5,190.5	-713.2	841.0	746.0	94.94	8.858			
15,582.0	10,355.8	15,632.3	10,343.8	47.9	48.3	89.16	-5,257.2	-713.0	841.1	745.0	96.15	8.748			
15,590.5	10,355.7	15,636.4	10,343.8	48.0	48.3	89.16	-5,261.3	-713.0	841.1	744.9	96.23	8.740			
15,600.0	10,355.7	15,645.9	10,343.7	48.1	48.4	89.16	-5,270.9	-713.1	841.1	744.7	96.39	8.726			
15,700.0	10,355.2	15,745.9	10,343.3	48.9	49.3	89.17	-5,370.9	-713.9	841.1	743.0	98.08	8.576			

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9871-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)	Factor		
15,800.0	10,354.8	15,845.9	10,342.9	49.7	50.1	89.17	-5,470.9	-714.8	841.1	741.3	99.76	8.431		
15,900.0	10,354.3	15,945.9	10,342.5	50.6	50.9	89.18	-5,570.9	-715.6	841.1	739.6	101.44	8.291		
16,000.0	10,353.8	16,045.9	10,342.1	51.4	51.8	89.18	-5,670.9	-716.5	841.0	737.9	103.13	8.155		
16,100.0	10,353.4	16,145.9	10,341.7	52.3	52.6	89.18	-5,770.8	-717.3	841.0	736.2	104.81	8.024		
16,200.0	10,352.9	16,245.9	10,341.3	53.1	53.5	89.19	-5,870.8	-718.1	841.0	734.5	106.50	7.897		
16,300.0	10,352.5	16,345.9	10,340.9	54.0	54.3	89.19	-5,970.8	-719.0	841.0	732.8	108.19	7.773		
16,400.0	10,352.0	16,445.9	10,340.5	54.8	55.1	89.20	-6,070.8	-719.8	841.0	731.1	109.88	7.654		
16,500.0	10,351.5	16,545.9	10,340.1	55.7	56.0	89.20	-6,170.8	-720.7	840.9	729.4	111.57	7.537		
16,600.0	10,351.1	16,645.9	10,339.7	56.5	56.8	89.21	-6,270.8	-721.5	840.9	727.7	113.26	7.425		
16,700.0	10,350.6	16,745.9	10,339.3	57.4	57.7	89.21	-6,370.8	-722.4	840.9	726.0	114.95	7.315		
16,800.0	10,350.2	16,845.9	10,338.9	58.2	58.5	89.21	-6,470.8	-723.2	840.9	724.2	116.64	7.209		
16,900.0	10,349.7	16,945.9	10,338.5	59.1	59.3	89.22	-6,570.8	-724.0	840.9	722.5	118.34	7.106		
17,000.0	10,349.2	17,045.9	10,338.1	59.9	60.2	89.22	-6,670.8	-724.9	840.8	720.8	120.03	7.005		
17,100.0	10,348.8	17,145.9	10,337.7	60.8	61.0	89.23	-6,770.8	-725.7	840.8	719.1	121.72	6.908		
17,200.0	10,348.3	17,245.9	10,337.3	61.6	61.9	89.23	-6,870.8	-726.6	840.8	717.4	123.42	6.813		
17,300.0	10,347.9	17,345.9	10,336.9	62.5	62.7	89.23	-6,970.8	-727.4	840.8	715.7	125.11	6.720		
17,400.0	10,347.4	17,445.9	10,336.5	63.3	63.6	89.24	-7,070.8	-728.3	840.8	714.0	126.81	6.630		
17,500.0	10,346.9	17,545.9	10,336.1	64.2	64.4	89.24	-7,170.8	-729.1	840.7	712.2	128.50	6.543		
17,600.0	10,346.5	17,645.9	10,335.7	65.0	65.3	89.25	-7,270.8	-729.9	840.7	710.5	130.20	6.457		
17,700.0	10,346.0	17,745.9	10,335.3	65.9	66.1	89.25	-7,370.8	-730.8	840.7	708.8	131.90	6.374		
17,800.0	10,345.6	17,845.9	10,334.9	66.7	67.0	89.25	-7,470.8	-731.6	840.7	707.1	133.60	6.293		
17,900.0	10,345.1	17,945.9	10,334.5	67.6	67.8	89.26	-7,570.8	-732.5	840.7	705.4	135.29	6.214		
18,000.0	10,344.6	18,045.9	10,334.1	68.4	68.6	89.26	-7,670.8	-733.3	840.7	703.7	136.99	6.136		
18,100.0	10,344.2	18,145.9	10,333.7	69.3	69.5	89.27	-7,770.8	-734.2	840.6	701.9	138.69	6.061		
18,200.0	10,343.7	18,245.9	10,333.3	70.1	70.3	89.27	-7,870.8	-735.0	840.6	700.2	140.39	5.988		
18,300.0	10,343.3	18,345.9	10,332.9	71.0	71.2	89.28	-7,970.8	-735.8	840.6	698.5	142.09	5.916		
18,400.0	10,342.8	18,445.9	10,332.5	71.8	72.0	89.28	-8,070.7	-736.7	840.6	696.8	143.79	5.846		
18,500.0	10,342.3	18,545.9	10,332.1	72.7	72.9	89.28	-8,170.7	-737.5	840.6	695.1	145.49	5.777		
18,600.0	10,341.9	18,645.9	10,331.7	73.5	73.7	89.29	-8,270.7	-738.4	840.5	693.3	147.19	5.710		
18,700.0	10,341.4	18,745.9	10,331.3	74.4	74.6	89.29	-8,370.7	-739.2	840.5	691.6	148.90	5.645		
18,800.0	10,341.0	18,845.9	10,330.9	75.2	75.4	89.30	-8,470.7	-740.1	840.5	689.9	150.60	5.581		
18,900.0	10,340.5	18,945.9	10,330.5	76.1	76.3	89.30	-8,570.7	-740.9	840.5	688.2	152.30	5.519		
19,000.0	10,340.0	19,045.9	10,330.1	76.9	77.1	89.30	-8,670.7	-741.8	840.5	686.5	154.00	5.457		
19,100.0	10,339.6	19,145.9	10,329.7	77.8	78.0	89.31	-8,770.7	-742.6	840.4	684.7	155.70	5.398		
19,200.0	10,339.1	19,245.9	10,329.3	78.6	78.8	89.31	-8,870.7	-743.4	840.4	683.0	157.41	5.339		
19,300.0	10,338.7	19,345.9	10,328.9	79.5	79.7	89.32	-8,970.7	-744.3	840.4	681.3	159.11	5.282		
19,400.0	10,338.2	19,445.9	10,328.5	80.3	80.5	89.32	-9,070.7	-745.1	840.4	679.6	160.81	5.226		
19,500.0	10,337.7	19,545.9	10,328.1	81.2	81.4	89.32	-9,170.7	-746.0	840.4	677.8	162.52	5.171		
19,600.0	10,337.3	19,645.9	10,327.7	82.1	82.2	89.33	-9,270.7	-746.8	840.3	676.1	164.22	5.117		
19,700.0	10,336.8	19,745.9	10,327.3	82.9	83.1	89.33	-9,370.7	-747.7	840.3	674.4	165.92	5.064		
19,800.0	10,336.4	19,845.9	10,326.9	83.8	83.9	89.34	-9,470.7	-748.5	840.3	672.7	167.63	5.013		
19,900.0	10,335.9	19,945.9	10,326.5	84.6	84.8	89.34	-9,570.7	-749.3	840.3	671.0	169.33	4.962		
20,000.0	10,335.4	20,045.9	10,326.1	85.5	85.6	89.35	-9,670.7	-750.2	840.3	669.2	171.04	4.913		
20,100.0	10,335.0	20,145.9	10,325.7	86.3	86.5	89.35	-9,770.7	-751.0	840.2	667.5	172.74	4.864		
20,200.0	10,334.5	20,245.9	10,325.3	87.2	87.3	89.35	-9,870.7	-751.9	840.2	665.8	174.45	4.816		
20,300.0	10,334.0	20,345.9	10,324.9	88.0	88.2	89.36	-9,970.7	-752.7	840.2	664.1	176.15	4.770		
20,400.0	10,333.6	20,445.9	10,324.5	88.9	89.0	89.36	-10,070.7	-753.6	840.2	662.3	177.86	4.724		
20,500.0	10,333.1	20,545.9	10,324.1	89.7	89.9	89.37	-10,170.7	-754.4	840.2	660.6	179.57	4.679		
20,600.0	10,332.7	20,645.9	10,323.7	90.6	90.7	89.37	-10,270.6	-755.2	840.2	658.9	181.27	4.635		
20,700.0	10,332.2	20,745.9	10,323.3	91.4	91.6	89.37	-10,370.6	-756.1	840.1	657.2	182.98	4.591		
20,788.6	10,331.8	20,836.7	10,323.0	92.2	92.4	89.38	-10,461.4	-756.8	840.1	655.6	184.52	4.553		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9871-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)						
20,800.0	10,331.7	20,852.8	10,322.9	92.3	92.5	89.38	-10,477.5	-756.9	840.1	655.3	184.77	4.547		
20,815.4	10,331.7	20,869.1	10,322.8	92.4	92.6	89.38	-10,493.8	-756.9	840.0	655.0	185.05	4.540		
20,900.0	10,331.3	20,953.6	10,322.5	93.2	93.4	89.38	-10,578.4	-756.8	840.0	653.5	186.49	4.504		
21,000.0	10,330.8	21,053.6	10,322.1	94.0	94.2	89.39	-10,678.4	-756.7	840.0	651.8	188.20	4.463		
21,100.0	10,330.4	21,153.6	10,321.7	94.9	95.1	89.39	-10,778.4	-756.7	840.0	650.1	189.91	4.423		
21,200.0	10,329.9	21,253.6	10,321.3	95.7	95.9	89.40	-10,878.4	-756.6	840.0	648.4	191.62	4.384		
21,300.0	10,329.4	21,353.6	10,321.0	96.6	96.8	89.40	-10,978.4	-756.5	840.0	646.7	193.33	4.345		
21,400.0	10,329.0	21,453.6	10,320.6	97.4	97.6	89.41	-11,078.4	-756.4	840.0	645.0	195.04	4.307		
21,500.0	10,328.5	21,553.6	10,320.2	98.3	98.5	89.41	-11,178.4	-756.4	840.0	643.3	196.75	4.270		
21,600.0	10,328.0	21,653.6	10,319.8	99.1	99.3	89.42	-11,278.4	-756.3	840.0	641.6	198.46	4.233		
21,700.0	10,327.6	21,753.6	10,319.4	100.0	100.2	89.42	-11,378.4	-756.2	840.0	639.8	200.16	4.197		
21,800.0	10,327.1	21,853.6	10,319.0	100.9	101.0	89.43	-11,478.4	-756.1	840.0	638.1	201.87	4.161		
21,900.0	10,326.7	21,953.6	10,318.6	101.7	101.9	89.43	-11,578.4	-756.1	840.0	636.4	203.59	4.126		
22,000.0	10,326.2	22,053.6	10,318.2	102.6	102.8	89.44	-11,678.4	-756.0	840.0	634.7	205.30	4.092		
22,100.0	10,325.7	22,153.6	10,317.8	103.4	103.6	89.44	-11,778.4	-755.9	840.0	633.0	207.01	4.058		
22,200.0	10,325.3	22,253.6	10,317.4	104.3	104.5	89.45	-11,878.4	-755.8	840.0	631.3	208.72	4.025		
22,300.0	10,324.8	22,353.6	10,317.0	105.1	105.3	89.45	-11,978.4	-755.7	840.0	629.6	210.43	3.992		
22,400.0	10,324.3	22,453.6	10,316.7	106.0	106.2	89.45	-12,078.4	-755.7	840.0	627.8	212.14	3.960		
22,500.0	10,323.9	22,553.6	10,316.3	106.8	107.0	89.46	-12,178.4	-755.6	840.0	626.1	213.85	3.928		
22,600.0	10,323.4	22,653.6	10,315.9	107.7	107.9	89.46	-12,278.4	-755.5	840.0	624.4	215.56	3.897		
22,700.0	10,323.0	22,753.6	10,315.5	108.6	108.7	89.47	-12,378.4	-755.4	840.0	622.7	217.27	3.866		
22,800.0	10,322.5	22,853.6	10,315.1	109.4	109.6	89.47	-12,478.4	-755.4	840.0	621.0	218.98	3.836		
22,900.0	10,322.0	22,953.6	10,314.7	110.3	110.4	89.48	-12,578.3	-755.3	840.0	619.3	220.69	3.806		
23,000.0	10,321.6	23,053.6	10,314.3	111.1	111.3	89.48	-12,678.3	-755.2	840.0	617.6	222.40	3.777		
23,100.0	10,321.1	23,153.6	10,313.9	112.0	112.2	89.49	-12,778.3	-755.1	840.0	615.8	224.11	3.748		
23,200.0	10,320.6	23,253.6	10,313.5	112.8	113.0	89.49	-12,878.3	-755.1	840.0	614.1	225.83	3.720		
23,300.0	10,320.2	23,353.6	10,313.1	113.7	113.9	89.50	-12,978.3	-755.0	840.0	612.4	227.54	3.692		
23,400.0	10,319.7	23,453.6	10,312.8	114.6	114.7	89.50	-13,078.3	-754.9	840.0	610.7	229.25	3.664		
23,500.0	10,319.3	23,553.6	10,312.4	115.4	115.6	89.51	-13,178.3	-754.8	840.0	609.0	230.96	3.637		
23,600.0	10,318.8	23,653.6	10,312.0	116.3	116.4	89.51	-13,278.3	-754.8	840.0	607.3	232.67	3.610		
23,700.0	10,318.3	23,753.6	10,311.6	117.1	117.3	89.52	-13,378.3	-754.7	839.9	605.6	234.39	3.584		
23,800.0	10,317.9	23,853.6	10,311.2	118.0	118.1	89.52	-13,478.3	-754.6	839.9	603.8	236.10	3.558		
23,900.0	10,317.4	23,953.6	10,310.8	118.8	119.0	89.53	-13,578.3	-754.5	839.9	602.1	237.81	3.532		
24,000.0	10,317.0	24,053.6	10,310.4	119.7	119.9	89.53	-13,678.3	-754.4	839.9	600.4	239.52	3.507		
24,100.0	10,316.5	24,153.6	10,310.0	120.5	120.7	89.54	-13,778.3	-754.4	839.9	598.7	241.23	3.482		
24,200.0	10,316.0	24,253.6	10,309.6	121.4	121.6	89.54	-13,878.3	-754.3	839.9	597.0	242.95	3.457		
24,300.0	10,315.6	24,353.6	10,309.2	122.3	122.4	89.55	-13,978.3	-754.2	839.9	595.3	244.66	3.433		
24,400.0	10,315.1	24,453.6	10,308.9	123.1	123.3	89.55	-14,078.3	-754.1	839.9	593.6	246.37	3.409		
24,500.0	10,314.6	24,553.6	10,308.5	124.0	124.1	89.56	-14,178.3	-754.1	839.9	591.8	248.08	3.386		
24,600.0	10,314.2	24,653.6	10,308.1	124.8	125.0	89.56	-14,278.3	-754.0	839.9	590.1	249.80	3.362		
24,700.0	10,313.7	24,753.6	10,307.7	125.7	125.8	89.57	-14,378.3	-753.9	839.9	588.4	251.51	3.340		
24,800.0	10,313.3	24,853.6	10,307.3	126.5	126.7	89.57	-14,478.3	-753.8	839.9	586.7	253.22	3.317		
24,900.0	10,312.8	24,953.6	10,306.9	127.4	127.6	89.58	-14,578.3	-753.8	839.9	585.0	254.93	3.295		
25,000.0	10,312.3	25,053.6	10,306.5	128.3	128.4	89.58	-14,678.3	-753.7	839.9	583.3	256.65	3.273		
25,100.0	10,311.9	25,153.6	10,306.1	129.1	129.3	89.59	-14,778.3	-753.6	839.9	581.6	258.36	3.251		
25,200.0	10,311.4	25,253.6	10,305.7	130.0	130.1	89.59	-14,878.3	-753.5	839.9	579.8	260.07	3.230		
25,300.0	10,310.9	25,353.6	10,305.3	130.8	131.0	89.60	-14,978.3	-753.5	839.9	578.1	261.79	3.208		
25,400.0	10,310.5	25,453.6	10,304.9	131.7	131.8	89.60	-15,078.3	-753.4	839.9	576.4	263.50	3.188		
25,500.0	10,310.0	25,553.6	10,304.6	132.5	132.7	89.61	-15,178.3	-753.3	839.9	574.7	265.21	3.167		
25,600.0	10,309.6	25,653.6	10,304.2	133.4	133.5	89.61	-15,278.3	-753.2	839.9	573.0	266.93	3.147		
25,700.0	10,309.1	25,753.6	10,303.8	134.3	134.4	89.62	-15,378.3	-753.2	839.9	571.3	268.64	3.126		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #701H - OWB - PWP1													Offset Site Error:0.0 usft	
Survey Program:0-Standard Keeper 104, 9871-MWD+IFR1+FDIR		ReferenceOffset		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	
25,800.0	10,308.6	25,853.6	10,303.4	135.1	135.3	89.62	-15,478.3	-753.1	839.9	569.5	270.35	3.107		
25,898.9	10,308.2	25,952.5	10,303.0	136.0	136.1	89.63	-15,577.2	-753.0	839.9	567.8	272.04	3.087		
25,900.0	10,308.2	25,952.6	10,303.0	136.0	136.1	89.63	-15,577.3	-753.0	839.9	567.8	272.05	3.087 SF		
25,935.7	10,308.0	25,952.6	10,303.0	136.3	136.1	89.63	-15,577.3	-753.0	840.7	568.7	271.99	3.091		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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
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	0.1	0.1	3.0	3.0	-35.65	44.9	-32.2	55.3				
100.0	100.0	100.1	100.1	3.0	3.0	-35.65	44.9	-32.2	55.3	49.3	6.00	9.208	
200.0	200.0	200.1	200.1	3.0	3.0	-35.65	44.9	-32.2	55.3	49.2	6.01	9.196	
300.0	300.0	300.1	300.1	3.0	3.0	-35.65	44.9	-32.2	55.3	49.2	6.02	9.171	
400.0	400.0	400.1	400.1	3.0	3.0	-35.65	44.9	-32.2	55.3	49.2	6.05	9.133	
500.0	500.0	500.1	500.1	3.1	3.1	-35.65	44.9	-32.2	55.3	49.2	6.08	9.083	
600.0	600.0	600.1	600.1	3.1	3.1	-35.65	44.9	-32.2	55.3	49.1	6.13	9.021	
700.0	700.0	700.1	700.1	3.1	3.1	-35.65	44.9	-32.2	55.3	49.1	6.18	8.947	
800.0	800.0	800.1	800.1	3.2	3.2	-35.65	44.9	-32.2	55.3	49.0	6.23	8.864	
900.0	900.0	900.1	900.1	3.2	3.2	-35.65	44.9	-32.2	55.3	49.0	6.30	8.771	
1,000.0	1,000.0	1,000.1	1,000.1	3.2	3.2	-35.65	44.9	-32.2	55.3	48.9	6.37	8.670	
1,100.0	1,100.0	1,100.1	1,100.1	3.3	3.3	-35.65	44.9	-32.2	55.3	48.8	6.45	8.561	
1,200.0	1,200.0	1,200.1	1,200.1	3.4	3.4	-35.65	44.9	-32.2	55.3	48.7	6.54	8.446	
1,300.0	1,300.0	1,300.1	1,300.1	3.4	3.4	-35.65	44.9	-32.2	55.3	48.6	6.64	8.325	
1,400.0	1,400.0	1,400.1	1,400.1	3.5	3.5	-35.65	44.9	-32.2	55.3	48.5	6.74	8.200	
1,500.0	1,500.0	1,500.1	1,500.1	3.5	3.5	-35.65	44.9	-32.2	55.3	48.4	6.85	8.072	
1,600.0	1,600.0	1,600.1	1,600.1	3.6	3.6	-35.65	44.9	-32.2	55.3	48.3	6.96	7.940	
1,700.0	1,700.0	1,700.1	1,700.1	3.7	3.7	-35.65	44.9	-32.2	55.3	48.2	7.08	7.807	
1,800.0	1,800.0	1,800.1	1,800.1	3.8	3.8	-35.65	44.9	-32.2	55.3	48.1	7.20	7.672	
1,900.0	1,900.0	1,900.1	1,900.1	3.9	3.9	-35.65	44.9	-32.2	55.3	47.9	7.33	7.537	
1,916.6	1,916.6	1,916.7	1,916.7	3.9	3.9	-35.65	44.9	-32.2	55.3	47.9	7.35	7.515 CC	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-35.65	44.9	-32.2	55.3	47.8	7.46	7.402 ES, SF	
2,100.0	2,100.0	2,098.8	2,098.8	4.0	4.0	-36.95	45.1	-33.9	56.4	48.8	7.57	7.453	
2,200.0	2,200.0	2,197.3	2,197.1	4.1	4.0	-40.56	45.5	-39.0	60.0	52.4	7.61	7.883	
2,300.0	2,300.0	2,295.3	2,294.8	4.2	4.1	-45.64	46.3	-47.3	66.4	58.8	7.61	8.733	
2,400.0	2,400.0	2,392.6	2,391.4	4.3	4.1	-51.21	47.4	-58.9	76.1	68.5	7.58	10.048	
2,500.0	2,500.0	2,489.1	2,486.7	4.4	4.2	-56.51	48.7	-73.7	89.3	81.8	7.54	11.846	
2,600.0	2,600.0	2,584.6	2,580.5	4.5	4.2	-26.75	50.4	-91.4	104.6	97.1	7.52	13.923	
2,700.0	2,699.8	2,682.4	2,676.2	4.6	4.3	-31.61	52.2	-111.6	119.6	112.1	7.51	15.929	
2,750.0	2,749.7	2,731.7	2,724.4	4.6	4.3	-33.94	53.2	-121.8	126.3	118.8	7.51	16.821	
2,800.0	2,799.5	2,781.0	2,772.7	4.7	4.3	-36.20	54.1	-132.0	132.9	125.4	7.52	17.683	
2,900.0	2,899.1	2,879.6	2,869.1	4.7	4.4	-40.12	56.0	-152.4	146.6	139.0	7.55	19.426	
3,000.0	2,998.7	2,978.2	2,965.6	4.8	4.4	-43.35	57.9	-172.8	160.8	153.2	7.60	21.172	
3,100.0	3,098.4	3,076.8	3,062.0	4.9	4.5	-46.06	59.8	-193.3	175.5	167.8	7.66	22.905	
3,200.0	3,198.0	3,175.4	3,158.5	5.0	4.6	-48.35	61.7	-213.7	190.4	182.7	7.74	24.611	
3,300.0	3,297.6	3,274.0	3,254.9	5.1	4.7	-50.30	63.6	-234.1	205.7	197.9	7.83	26.282	
3,400.0	3,397.2	3,372.6	3,351.4	5.2	4.7	-51.99	65.5	-254.5	221.1	213.2	7.92	27.912	
3,500.0	3,496.8	3,471.2	3,447.8	5.3	4.8	-53.45	67.3	-274.9	236.7	228.7	8.03	29.496	
3,600.0	3,596.4	3,569.9	3,544.3	5.4	4.9	-54.73	69.2	-295.3	252.5	244.3	8.14	31.030	
3,700.0	3,696.1	3,668.5	3,640.7	5.5	5.0	-55.87	71.1	-315.7	268.3	260.1	8.25	32.515	
3,800.0	3,795.7	3,767.1	3,737.2	5.6	5.1	-56.87	73.0	-336.2	284.2	275.9	8.37	33.947	
3,900.0	3,895.3	3,865.7	3,833.6	5.7	5.2	-57.77	74.9	-356.6	300.3	291.8	8.50	35.326	
4,000.0	3,994.9	3,964.3	3,930.1	5.8	5.3	-58.58	76.8	-377.0	316.3	307.7	8.63	36.653	
4,100.0	4,094.5	4,062.9	4,026.5	5.9	5.4	-59.31	78.7	-397.4	332.5	323.7	8.77	37.927	
4,200.0	4,194.2	4,161.5	4,123.0	6.0	5.5	-59.97	80.6	-417.8	348.6	339.7	8.91	39.150	
4,300.0	4,293.8	4,260.1	4,219.4	6.1	5.6	-60.57	82.4	-438.2	364.9	355.8	9.05	40.322	
4,400.0	4,393.4	4,358.7	4,315.9	6.2	5.7	-61.13	84.3	-458.6	381.1	371.9	9.20	41.443	
4,500.0	4,493.0	4,457.3	4,412.3	6.3	5.9	-61.63	86.2	-479.1	397.4	388.1	9.35	42.516	
4,600.0	4,592.6	4,555.9	4,508.8	6.5	6.0	-62.10	88.1	-499.5	413.7	404.2	9.50	43.541	
4,700.0	4,692.3	4,654.5	4,605.2	6.6	6.1	-62.53	90.0	-519.9	430.1	420.4	9.66	44.520	
4,800.0	4,791.9	4,753.1	4,701.7	6.7	6.2	-62.93	91.9	-540.3	446.4	436.6	9.82	45.455	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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
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		Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	(usft)		
4,815.9	4,807.7	4,768.8	4,717.0	6.7	6.2	-62.99	92.2	-543.5	449.0	439.2	9.85	45.599		
4,900.0	4,891.6	4,851.7	4,798.1	6.8	6.3	-63.36	93.8	-560.7	463.1	453.1	9.99	46.368		
5,000.0	4,991.3	4,950.2	4,894.4	6.9	6.5	-63.61	95.6	-581.1	480.5	470.3	10.16	47.301		
5,100.0	5,091.2	5,048.5	4,990.6	7.0	6.6	-63.69	97.5	-601.4	498.7	488.4	10.33	48.261		
5,200.0	5,191.2	5,146.7	5,086.6	7.1	6.7	-63.59	99.4	-621.8	517.6	507.1	10.51	49.245		
5,300.0	5,291.2	5,244.6	5,182.4	7.2	6.8	-63.36	101.3	-642.0	537.4	526.7	10.70	50.236		
5,315.9	5,307.1	5,260.2	5,197.6	7.3	6.9	-97.97	101.6	-645.3	540.6	529.9	10.73	50.398		
5,400.0	5,391.2	5,342.4	5,278.1	7.4	7.0	-97.56	103.2	-662.3	557.6	546.8	10.88	51.271		
5,500.0	5,491.2	5,440.2	5,373.8	7.5	7.1	-97.10	105.0	-682.5	578.0	566.9	11.06	52.277		
5,600.0	5,591.2	5,538.1	5,469.5	7.6	7.3	-96.68	106.9	-702.8	598.3	587.1	11.24	53.248		
5,700.0	5,691.2	5,635.9	5,565.2	7.7	7.4	-96.28	108.8	-723.0	618.7	607.3	11.42	54.188		
5,800.0	5,791.2	5,733.7	5,660.8	7.8	7.5	-95.90	110.6	-743.3	639.1	627.5	11.60	55.095		
5,900.0	5,891.2	5,831.5	5,756.5	7.9	7.7	-95.55	112.5	-763.6	659.5	647.7	11.78	55.973		
6,000.0	5,991.2	5,929.3	5,852.2	8.1	7.8	-95.22	114.4	-783.8	679.9	668.0	11.97	56.822		
6,100.0	6,091.2	6,027.1	5,947.9	8.2	8.0	-94.91	116.3	-804.1	700.4	688.3	12.15	57.643		
6,200.0	6,191.2	6,124.9	6,043.5	8.3	8.2	-94.62	118.1	-824.3	720.9	708.6	12.34	58.437		
6,300.0	6,291.2	6,222.8	6,139.2	8.4	8.3	-94.35	120.0	-844.6	741.4	728.9	12.52	59.205		
6,400.0	6,391.2	6,320.6	6,234.9	8.5	8.5	-94.09	121.9	-864.8	761.9	749.2	12.71	59.948		
6,500.0	6,491.2	6,418.4	6,330.6	8.7	8.6	-93.84	123.8	-885.1	782.5	769.6	12.90	60.667		
6,600.0	6,591.2	6,516.2	6,426.3	8.8	8.8	-93.60	125.6	-905.3	803.0	789.9	13.09	61.363		
6,700.0	6,691.2	6,614.0	6,521.9	8.9	9.0	-93.38	127.5	-925.6	823.6	810.3	13.28	62.037		
6,800.0	6,791.2	6,711.8	6,617.6	9.0	9.1	-93.17	129.4	-945.8	844.1	830.7	13.47	62.690		
6,900.0	6,891.2	6,809.7	6,713.3	9.1	9.3	-92.96	131.2	-966.1	864.7	851.1	13.66	63.322		
7,000.0	6,991.2	6,907.5	6,809.0	9.3	9.5	-92.77	133.1	-986.3	885.3	871.5	13.85	63.934		
7,100.0	7,091.2	7,005.3	6,904.6	9.4	9.7	-92.59	135.0	-1,006.6	905.9	891.9	14.04	64.527		
7,200.0	7,191.2	7,103.1	7,000.3	9.5	9.9	-92.41	136.9	-1,026.8	926.5	912.3	14.23	65.101		
7,300.0	7,291.2	7,200.9	7,096.0	9.6	10.0	-92.24	138.7	-1,047.1	947.1	932.7	14.43	65.658		
7,400.0	7,391.2	7,298.7	7,191.7	9.8	10.2	-92.08	140.6	-1,067.3	967.7	953.1	14.62	66.198		
7,500.0	7,491.2	7,396.5	7,287.3	9.9	10.4	-91.93	142.5	-1,087.6	988.4	973.6	14.81	66.721		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9810-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)					
0.0	0.0	0.6	0.6	3.0	3.0	31.74	45.1	27.9	53.0				
100.0	100.0	100.6	100.6	3.0	3.0	31.74	45.1	27.9	53.0	47.0	6.00	8.838	
200.0	200.0	200.6	200.6	3.0	3.0	31.74	45.1	27.9	53.0	47.0	6.01	8.826	
300.0	300.0	300.6	300.6	3.0	3.0	31.74	45.1	27.9	53.0	47.0	6.03	8.800	
400.0	400.0	400.6	400.6	3.0	3.0	31.74	45.1	27.9	53.0	47.0	6.05	8.762	
500.0	500.0	500.6	500.6	3.1	3.1	31.74	45.1	27.9	53.0	46.9	6.09	8.711	
600.0	600.0	600.6	600.6	3.1	3.1	31.74	45.1	27.9	53.0	46.9	6.13	8.647	
700.0	700.0	700.6	700.6	3.1	3.1	31.74	45.1	27.9	53.0	46.8	6.19	8.573	
800.0	800.0	800.6	800.6	3.2	3.2	31.74	45.1	27.9	53.0	46.8	6.25	8.489	
900.0	900.0	900.6	900.6	3.2	3.2	31.74	45.1	27.9	53.0	46.7	6.32	8.395	
1,000.0	1,000.0	1,000.6	1,000.6	3.2	3.2	31.74	45.1	27.9	53.0	46.6	6.40	8.293	
1,100.0	1,100.0	1,100.6	1,100.6	3.3	3.3	31.74	45.1	27.9	53.0	46.6	6.48	8.183	
1,200.0	1,200.0	1,200.6	1,200.6	3.4	3.4	31.74	45.1	27.9	53.0	46.5	6.57	8.068	
1,300.0	1,300.0	1,300.6	1,300.6	3.4	3.4	31.74	45.1	27.9	53.0	46.4	6.67	7.947	
1,400.0	1,400.0	1,400.6	1,400.6	3.5	3.5	31.74	45.1	27.9	53.0	46.3	6.78	7.822	
1,500.0	1,500.0	1,500.6	1,500.6	3.5	3.5	31.74	45.1	27.9	53.0	46.1	6.89	7.694	
1,600.0	1,600.0	1,600.6	1,600.6	3.6	3.6	31.74	45.1	27.9	53.0	46.0	7.01	7.563	
1,700.0	1,700.0	1,700.6	1,700.6	3.7	3.7	31.74	45.1	27.9	53.0	45.9	7.14	7.431	
1,800.0	1,800.0	1,800.6	1,800.6	3.8	3.8	31.74	45.1	27.9	53.0	45.8	7.27	7.297	
1,900.0	1,900.0	1,900.6	1,900.6	3.9	3.9	31.74	45.1	27.9	53.0	45.6	7.40	7.164	
1,916.5	1,916.5	1,917.1	1,917.1	3.9	3.9	31.74	45.1	27.9	53.0	45.6	7.43	7.141	CC
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	31.74	45.1	27.9	53.0	45.5	7.54	7.031	ES
2,100.0	2,100.0	2,099.3	2,099.3	4.0	4.0	33.08	45.4	29.6	54.2	46.6	7.65	7.085	
2,200.0	2,200.0	2,197.8	2,197.6	4.1	4.0	36.72	46.4	34.6	58.0	50.2	7.71	7.521	
2,300.0	2,300.0	2,295.8	2,295.3	4.2	4.1	41.78	48.0	42.9	64.6	56.9	7.71	8.374	
2,400.0	2,400.0	2,393.1	2,391.9	4.3	4.1	47.27	50.2	54.3	74.5	66.8	7.69	9.686	
2,500.0	2,500.0	2,492.0	2,489.8	4.4	4.2	52.10	52.8	67.8	86.7	79.0	7.69	11.271	
2,600.0	2,600.0	2,590.9	2,587.8	4.5	4.2	91.16	55.4	81.4	99.3	91.6	7.67	12.943	
2,700.0	2,699.8	2,689.5	2,685.4	4.6	4.3	96.23	58.0	94.8	112.8	105.2	7.62	14.797	
2,750.0	2,749.7	2,738.7	2,734.1	4.6	4.3	98.91	59.3	101.6	120.0	112.4	7.60	15.804	
2,800.0	2,799.5	2,787.7	2,782.7	4.7	4.3	101.60	60.6	108.3	127.6	120.0	7.57	16.848	
2,900.0	2,899.1	2,885.9	2,879.9	4.7	4.4	106.12	63.2	121.7	143.5	135.9	7.57	18.962	
3,000.0	2,998.7	2,984.1	2,977.1	4.8	4.5	109.72	65.8	135.1	160.1	152.5	7.60	21.073	
3,100.0	3,098.4	3,082.2	3,074.3	4.9	4.5	112.65	68.4	148.5	177.2	169.5	7.65	23.152	
3,200.0	3,198.0	3,180.4	3,171.5	5.0	4.6	115.06	71.0	161.9	194.6	186.9	7.73	25.182	
3,300.0	3,297.6	3,278.6	3,268.7	5.1	4.7	117.08	73.6	175.3	212.4	204.5	7.82	27.151	
3,400.0	3,397.2	3,376.7	3,365.9	5.2	4.8	118.78	76.1	188.7	230.3	222.4	7.93	29.055	
3,500.0	3,496.8	3,474.9	3,463.1	5.3	4.9	120.23	78.7	202.2	248.4	240.4	8.04	30.890	
3,600.0	3,596.4	3,573.0	3,560.3	5.4	4.9	121.49	81.3	215.6	266.7	258.5	8.17	32.653	
3,700.0	3,696.1	3,671.2	3,657.5	5.5	5.0	122.59	83.9	229.0	285.1	276.8	8.30	34.344	
3,800.0	3,795.7	3,769.4	3,754.7	5.6	5.1	123.55	86.5	242.4	303.5	295.1	8.44	35.964	
3,900.0	3,895.3	3,867.5	3,851.9	5.7	5.2	124.41	89.1	255.8	322.0	313.5	8.58	37.515	
4,000.0	3,994.9	3,965.7	3,949.2	5.8	5.3	125.17	91.7	269.2	340.6	331.9	8.73	38.996	
4,100.0	4,094.5	4,063.9	4,046.4	5.9	5.4	125.85	94.3	282.6	359.3	350.4	8.89	40.411	
4,200.0	4,194.2	4,162.0	4,143.6	6.0	5.5	126.46	96.9	296.1	378.0	368.9	9.05	41.762	
4,300.0	4,293.8	4,260.2	4,240.8	6.1	5.6	127.02	99.5	309.5	396.7	387.5	9.21	43.050	
4,400.0	4,393.4	4,358.3	4,338.0	6.2	5.7	127.53	102.0	322.9	415.4	406.1	9.38	44.278	
4,500.0	4,493.0	4,456.5	4,435.2	6.3	5.8	127.99	104.6	336.3	434.2	424.7	9.55	45.448	
4,600.0	4,592.6	4,554.7	4,532.4	6.5	5.9	128.41	107.2	349.7	453.0	443.3	9.73	46.564	
4,700.0	4,692.3	4,652.8	4,629.6	6.6	6.0	128.80	109.8	363.1	471.9	462.0	9.91	47.626	
4,800.0	4,791.9	4,751.0	4,726.8	6.7	6.1	129.17	112.4	376.5	490.7	480.6	10.09	48.638	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9810-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		
4,815.9	4,807.7	4,766.6	4,742.2	6.7	6.1	129.22	112.8	378.7	493.7	483.6	10.12	48.794		
4,900.0	4,891.6	4,849.2	4,824.1	6.8	6.2	129.57	115.0	390.0	509.2	498.9	10.27	49.568		
5,000.0	4,991.3	4,947.7	4,921.6	6.9	6.3	129.82	117.6	403.4	526.6	516.2	10.46	50.362		
5,100.0	5,091.2	5,046.4	5,019.3	7.0	6.4	129.91	120.2	416.9	542.9	532.3	10.64	51.033		
5,200.0	5,191.2	5,145.2	5,117.2	7.1	6.5	129.85	122.8	430.4	558.1	547.3	10.82	51.587		
5,300.0	5,291.2	5,244.1	5,215.2	7.2	6.6	129.66	125.4	443.9	572.2	561.2	11.00	52.022		
5,315.9	5,307.1	5,259.9	5,230.7	7.3	6.6	94.96	125.8	446.1	574.4	563.4	11.03	52.090		
5,400.0	5,391.2	5,343.2	5,313.2	7.4	6.7	94.64	128.0	457.5	585.7	574.5	11.16	52.481		
5,500.0	5,491.2	5,442.2	5,411.3	7.5	6.8	94.29	130.6	471.0	599.1	587.8	11.32	52.928		
5,600.0	5,591.2	5,541.2	5,509.3	7.6	6.9	93.94	133.2	484.5	612.5	601.1	11.48	53.359		
5,700.0	5,691.2	5,640.2	5,607.4	7.7	7.0	93.62	135.9	498.1	626.0	614.4	11.64	53.772		
5,800.0	5,791.2	5,739.3	5,705.5	7.8	7.2	93.31	138.5	511.6	639.5	627.7	11.81	54.169		
5,900.0	5,891.2	5,838.3	5,803.5	7.9	7.3	93.01	141.1	525.1	653.0	641.0	11.97	54.551		
6,000.0	5,991.2	5,937.3	5,901.6	8.1	7.4	92.72	143.7	538.7	666.5	654.4	12.14	54.918		
6,100.0	6,091.2	6,036.3	5,999.7	8.2	7.5	92.44	146.3	552.2	680.1	667.8	12.30	55.271		
6,200.0	6,191.2	6,135.4	6,097.7	8.3	7.6	92.18	148.9	565.7	693.6	681.1	12.47	55.610		
6,300.0	6,291.2	6,234.4	6,195.8	8.4	7.7	91.92	151.5	579.2	707.2	694.5	12.64	55.937		
6,400.0	6,391.2	6,333.4	6,293.8	8.5	7.9	91.67	154.1	592.8	720.8	708.0	12.81	56.251		
6,500.0	6,491.2	6,432.5	6,391.9	8.7	8.0	91.44	156.8	606.3	734.4	721.4	12.99	56.553		
6,600.0	6,591.2	6,531.5	6,490.0	8.8	8.1	91.21	159.4	619.8	748.0	734.8	13.16	56.843		
6,700.0	6,691.2	6,630.5	6,588.0	8.9	8.2	90.99	162.0	633.4	761.6	748.3	13.33	57.123		
6,800.0	6,791.2	6,729.5	6,686.1	9.0	8.3	90.78	164.6	646.9	775.2	761.7	13.51	57.393		
6,900.0	6,891.2	6,828.6	6,784.2	9.1	8.5	90.57	167.2	660.4	788.9	775.2	13.68	57.652		
7,000.0	6,991.2	6,941.4	6,896.0	9.3	8.6	90.36	170.0	675.0	801.8	787.9	13.84	57.922		
7,100.0	7,091.2	7,056.7	7,010.6	9.4	8.7	90.18	172.5	687.7	812.7	798.7	14.00	58.036		
7,200.0	7,191.2	7,172.5	7,125.9	9.5	8.9	90.04	174.5	698.1	821.7	807.6	14.17	57.983		
7,300.0	7,291.2	7,288.6	7,241.7	9.6	9.0	89.93	176.0	706.3	828.8	814.4	14.35	57.765		
7,400.0	7,391.2	7,405.1	7,358.1	9.8	9.1	89.85	177.2	712.1	833.8	819.3	14.53	57.387		
7,500.0	7,491.2	7,521.8	7,474.7	9.9	9.3	89.80	177.9	715.7	836.9	822.1	14.72	56.849		
7,600.0	7,591.2	7,638.5	7,591.4	10.0	9.4	89.79	178.1	716.9	837.9	823.0	14.91	56.206		
7,700.0	7,691.2	7,738.9	7,691.8	10.1	9.5	89.79	178.1	716.9	837.9	822.9	15.01	55.823		
7,800.0	7,791.2	7,838.9	7,791.8	10.3	9.6	89.79	178.1	716.9	837.9	822.8	15.11	55.448		
7,900.0	7,891.2	7,938.9	7,891.8	10.4	9.6	89.79	178.1	716.9	837.9	822.7	15.21	55.077		
8,000.0	7,991.2	8,038.9	7,991.8	10.5	9.7	89.79	178.1	716.9	837.9	822.6	15.32	54.708		
8,100.0	8,091.2	8,138.9	8,091.8	10.6	9.8	89.79	178.1	716.9	837.9	822.5	15.42	54.342		
8,200.0	8,191.2	8,238.9	8,191.8	10.7	9.9	89.79	178.1	716.9	837.9	822.4	15.52	53.979		
8,300.0	8,291.2	8,338.9	8,291.8	10.9	10.0	89.79	178.1	716.9	837.9	822.3	15.63	53.619		
8,400.0	8,391.2	8,438.9	8,391.8	11.0	10.1	89.79	178.1	716.9	837.9	822.2	15.73	53.262		
8,500.0	8,491.2	8,538.9	8,491.8	11.1	10.2	89.79	178.1	716.9	837.9	822.1	15.84	52.908		
8,600.0	8,591.2	8,638.9	8,591.8	11.2	10.3	89.79	178.1	716.9	837.9	822.0	15.94	52.558		
8,700.0	8,691.2	8,738.9	8,691.8	11.4	10.4	89.79	178.1	716.9	837.9	821.9	16.05	52.210		
8,800.0	8,791.2	8,838.9	8,791.8	11.5	10.5	89.79	178.1	716.9	837.9	821.8	16.16	51.865		
8,900.0	8,891.2	8,938.9	8,891.8	11.6	10.6	89.79	178.1	716.9	837.9	821.6	16.26	51.523		
9,000.0	8,991.2	9,038.9	8,991.8	11.8	10.7	89.79	178.1	716.9	837.9	821.5	16.37	51.184		
9,100.0	9,091.2	9,138.9	9,091.8	11.9	10.8	89.79	178.1	716.9	837.9	821.4	16.48	50.849		
9,200.0	9,191.2	9,238.9	9,191.8	12.0	10.9	89.79	178.1	716.9	837.9	821.3	16.59	50.516		
9,300.0	9,291.2	9,338.9	9,291.8	12.1	11.0	89.79	178.1	716.9	837.9	821.2	16.70	50.186		
9,400.0	9,391.2	9,438.9	9,391.8	12.3	11.1	89.79	178.1	716.9	837.9	821.1	16.81	49.860		
9,500.0	9,491.2	9,538.9	9,491.8	12.4	11.2	89.79	178.1	716.9	837.9	821.0	16.92	49.536		
9,600.0	9,591.2	9,638.9	9,591.8	12.5	11.3	89.79	178.1	716.9	837.9	820.9	17.03	49.215		
9,700.0	9,691.2	9,738.9	9,691.8	12.6	11.4	89.79	178.1	716.9	837.9	820.8	17.14	48.897		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9810-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: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)			
9,800.0	9,791.2	9,838.9	9,791.8	12.8	11.5	89.79	178.1	716.9	837.9	820.7	17.24	48.604	
9,814.1	9,805.3	9,853.0	9,805.9	12.8	11.5	89.79	178.1	716.9	837.9	820.7	17.25	48.580	
9,850.0	9,841.2	9,887.9	9,840.8	12.8	11.6	-87.60	177.9	716.9	837.9	820.6	17.26	48.547	
9,900.0	9,890.9	9,935.0	9,887.8	12.8	11.6	-87.73	174.7	717.1	837.8	820.5	17.28	48.492	
9,950.0	9,939.9	9,982.3	9,934.5	12.8	11.6	-87.88	167.6	717.4	837.7	820.4	17.30	48.412	
10,000.0	9,987.9	10,029.7	9,980.6	12.8	11.6	-88.04	156.6	717.9	837.6	820.3	17.34	48.304	
10,050.0	10,034.6	10,077.4	10,025.9	12.8	11.6	-88.22	141.8	718.6	837.6	820.2	17.39	48.164	
10,100.0	10,079.5	10,125.2	10,069.9	12.9	11.6	-88.41	123.2	719.5	837.5	820.0	17.45	47.986	
10,150.0	10,122.3	10,173.2	10,112.4	12.9	11.7	-88.61	100.9	720.5	837.4	819.9	17.53	47.762	
10,200.0	10,162.7	10,221.5	10,153.1	12.9	11.7	-88.82	75.0	721.8	837.4	819.7	17.63	47.485	
10,250.0	10,200.3	10,270.0	10,191.7	13.0	11.8	-89.04	45.6	723.2	837.3	819.6	17.76	47.147	
10,300.0	10,235.0	10,318.8	10,227.8	13.0	11.8	-89.27	12.9	724.7	837.3	819.4	17.91	46.741	
10,350.0	10,266.4	10,367.9	10,261.2	13.1	11.9	-89.50	-23.1	726.4	837.3	819.2	18.10	46.263	
10,381.0	10,284.1	10,398.5	10,280.5	13.1	11.9	-89.65	-46.9	727.5	837.3	819.0	18.23	45.927	
10,400.0	10,294.3	10,417.3	10,291.6	13.1	11.9	-89.74	-61.9	728.2	837.3	819.0	18.32	45.710	
10,450.0	10,318.5	10,467.0	10,318.7	13.2	12.0	-89.98	-103.5	730.2	837.3	818.7	18.57	45.084	
10,500.0	10,338.7	10,517.0	10,342.1	13.2	12.1	-90.22	-147.6	732.3	837.3	818.5	18.86	44.388	
10,550.0	10,354.9	10,567.3	10,361.8	13.3	12.1	-90.47	-193.8	734.4	837.4	818.2	19.19	43.633	
10,600.0	10,366.9	10,617.9	10,377.4	13.3	12.2	-90.70	-241.9	736.7	837.4	817.9	19.55	42.829	
10,650.0	10,374.7	10,668.8	10,388.8	13.4	12.3	-90.94	-291.5	739.1	837.5	817.6	19.94	41.992	
10,700.0	10,378.1	10,720.1	10,395.7	13.4	12.4	-91.17	-342.2	741.4	837.6	817.2	20.36	41.135	
10,716.8	10,378.3	10,737.3	10,397.0	13.4	12.4	-91.24	-359.4	742.3	837.6	817.1	20.51	40.848	
10,800.0	10,377.9	10,821.8	10,397.8	13.4	12.6	-91.32	-443.8	746.2	837.7	816.4	21.26	39.395	
10,900.0	10,377.4	10,921.8	10,397.3	13.4	12.8	-91.32	-543.7	751.0	837.8	815.5	22.26	37.630	
11,000.0	10,376.9	11,021.8	10,396.8	13.5	13.1	-91.31	-643.5	755.7	837.8	814.5	23.35	35.886	
11,100.0	10,376.5	11,121.8	10,396.2	13.5	13.5	-91.31	-743.4	760.4	837.9	813.4	24.50	34.194	
11,200.0	10,376.0	11,221.8	10,395.7	13.6	14.0	-91.31	-843.3	765.1	837.9	812.2	25.72	32.574	
11,300.0	10,375.6	11,321.8	10,395.2	13.7	14.5	-91.30	-943.2	769.8	838.0	811.0	27.00	31.037	
11,400.0	10,375.1	11,421.8	10,394.7	14.0	15.0	-91.30	-1,043.1	774.5	838.0	809.7	28.32	29.590	
11,500.0	10,374.6	11,521.8	10,394.1	14.5	15.6	-91.29	-1,143.0	779.2	838.1	808.4	29.68	28.232	
11,600.0	10,374.2	11,621.8	10,393.6	15.2	16.2	-91.29	-1,242.9	783.9	838.1	807.0	31.08	26.963	
11,700.0	10,373.7	11,721.8	10,393.1	15.9	16.9	-91.28	-1,342.8	788.6	838.2	805.7	32.52	25.778	
11,800.0	10,373.2	11,821.8	10,392.6	16.6	17.5	-91.28	-1,442.6	793.4	838.2	804.3	33.97	24.673	
11,900.0	10,372.8	11,921.8	10,392.0	17.4	18.2	-91.27	-1,542.5	798.1	838.3	802.8	35.46	23.643	
12,000.0	10,372.3	12,021.8	10,391.5	18.1	19.0	-91.27	-1,642.4	802.8	838.3	801.4	36.96	22.683	
12,100.0	10,371.9	12,121.8	10,391.0	18.9	19.7	-91.27	-1,742.3	807.5	838.4	799.9	38.48	21.787	
12,200.0	10,371.4	12,221.8	10,390.5	19.7	20.4	-91.26	-1,842.2	812.2	838.4	798.4	40.02	20.951	
12,300.0	10,370.9	12,321.8	10,389.9	20.5	21.2	-91.26	-1,942.1	816.9	838.5	796.9	41.57	20.169	
12,400.0	10,370.5	12,421.8	10,389.4	21.3	21.9	-91.25	-2,042.0	821.6	838.5	795.4	43.14	19.438	
12,500.0	10,370.0	12,521.8	10,388.9	22.1	22.7	-91.25	-2,141.9	826.3	838.6	793.9	44.72	18.753	
12,600.0	10,369.5	12,621.8	10,388.4	22.9	23.5	-91.24	-2,241.7	831.1	838.7	792.3	46.31	18.111	
12,700.0	10,369.1	12,721.8	10,387.8	23.7	24.2	-91.24	-2,341.6	835.8	838.7	790.8	47.90	17.508	
12,800.0	10,368.6	12,821.8	10,387.3	24.5	25.0	-91.23	-2,441.5	840.5	838.8	789.2	49.51	16.941	
12,900.0	10,368.2	12,921.8	10,386.8	25.4	25.8	-91.23	-2,541.4	845.2	838.8	787.7	51.13	16.407	
13,000.0	10,367.7	13,021.8	10,386.3	26.2	26.6	-91.23	-2,641.3	849.9	838.9	786.1	52.75	15.904	
13,100.0	10,367.2	13,121.8	10,385.7	27.0	27.4	-91.22	-2,741.2	854.6	838.9	784.5	54.38	15.428	
13,200.0	10,366.8	13,221.8	10,385.2	27.8	28.2	-91.22	-2,841.1	859.3	839.0	783.0	56.01	14.979	
13,300.0	10,366.3	13,321.8	10,384.7	28.7	29.0	-91.21	-2,941.0	864.0	839.0	781.4	57.65	14.554	
13,400.0	10,365.9	13,421.8	10,384.2	29.5	29.8	-91.21	-3,040.8	868.8	839.1	779.8	59.29	14.151	
13,500.0	10,365.4	13,521.8	10,383.6	30.3	30.6	-91.20	-3,140.7	873.5	839.1	778.2	60.94	13.769	
13,600.0	10,364.9	13,621.8	10,383.1	31.2	31.5	-91.20	-3,240.6	878.2	839.2	776.6	62.60	13.407	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9810-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)					
13,700.0	10,364.5	13,721.8	10,382.6	32.0	32.3	-91.20	-3,340.5	882.9	839.2	775.0	64.25	13.062	
13,800.0	10,364.0	13,821.8	10,382.1	32.8	33.1	-91.19	-3,440.4	887.6	839.3	773.4	65.91	12.733	
13,900.0	10,363.5	13,921.8	10,381.5	33.7	33.9	-91.19	-3,540.3	892.3	839.3	771.8	67.58	12.421	
14,000.0	10,363.1	14,021.8	10,381.0	34.5	34.8	-91.18	-3,640.2	897.0	839.4	770.2	69.24	12.122	
14,100.0	10,362.6	14,121.8	10,380.5	35.4	35.6	-91.18	-3,740.1	901.7	839.5	768.5	70.91	11.838	
14,200.0	10,362.2	14,221.8	10,380.0	36.2	36.4	-91.17	-3,839.9	906.5	839.5	766.9	72.59	11.566	
14,300.0	10,361.7	14,321.8	10,379.4	37.0	37.2	-91.17	-3,939.8	911.2	839.6	765.3	74.26	11.306	
14,400.0	10,361.2	14,421.8	10,378.9	37.9	38.1	-91.16	-4,039.7	915.9	839.6	763.7	75.94	11.057	
14,500.0	10,360.8	14,521.8	10,378.4	38.7	38.9	-91.16	-4,139.6	920.6	839.7	762.0	77.62	10.818	
14,600.0	10,360.3	14,621.8	10,377.9	39.6	39.7	-91.16	-4,239.5	925.3	839.7	760.4	79.30	10.589	
14,700.0	10,359.8	14,721.8	10,377.3	40.4	40.6	-91.15	-4,339.4	930.0	839.8	758.8	80.98	10.370	
14,800.0	10,359.4	14,821.8	10,376.8	41.3	41.4	-91.15	-4,439.3	934.7	839.8	757.2	82.67	10.159	
14,900.0	10,358.9	14,921.8	10,376.3	42.1	42.3	-91.14	-4,539.2	939.4	839.9	755.5	84.35	9.957	
15,000.0	10,358.5	15,021.8	10,375.8	43.0	43.1	-91.14	-4,639.0	944.2	839.9	753.9	86.04	9.762	
15,100.0	10,358.0	15,121.8	10,375.2	43.8	43.9	-91.13	-4,738.9	948.9	840.0	752.3	87.73	9.574	
15,200.0	10,357.5	15,221.8	10,374.7	44.7	44.8	-91.13	-4,838.8	953.6	840.0	750.6	89.42	9.394	
15,300.0	10,357.1	15,321.8	10,374.2	45.5	45.6	-91.13	-4,938.7	958.3	840.1	749.0	91.12	9.220	
15,400.0	10,356.6	15,421.8	10,373.7	46.4	46.5	-91.12	-5,038.6	963.0	840.1	747.3	92.81	9.052	
15,423.9	10,356.5	15,445.7	10,373.5	46.6	46.7	-91.12	-5,062.4	964.1	840.2	746.9	93.21	9.013	
15,500.0	10,356.1	15,535.5	10,373.1	47.2	47.4	-91.11	-5,152.2	968.0	840.9	746.3	94.60	8.889	
15,582.0	10,355.8	15,651.6	10,372.4	47.9	48.4	-91.10	-5,268.3	969.2	841.3	745.2	96.14	8.751	
15,587.5	10,355.7	15,659.4	10,372.4	48.0	48.5	-91.09	-5,276.0	969.1	841.3	745.1	96.24	8.742	
15,600.0	10,355.7	15,668.9	10,372.4	48.1	48.5	-91.09	-5,285.5	969.1	841.3	744.9	96.44	8.724	
15,700.0	10,355.2	15,768.9	10,371.8	48.9	49.4	-91.09	-5,385.5	968.2	841.3	743.2	98.12	8.574	
15,800.0	10,354.8	15,868.9	10,371.3	49.7	50.2	-91.09	-5,485.5	967.3	841.3	741.5	99.81	8.429	
15,900.0	10,354.3	15,968.9	10,370.8	50.6	51.0	-91.08	-5,585.5	966.4	841.3	739.8	101.49	8.289	
16,000.0	10,353.8	16,068.9	10,370.3	51.4	51.9	-91.08	-5,685.5	965.5	841.2	738.1	103.18	8.153	
16,100.0	10,353.4	16,168.9	10,369.7	52.3	52.7	-91.07	-5,785.5	964.6	841.2	736.4	104.87	8.022	
16,200.0	10,352.9	16,268.9	10,369.2	53.1	53.6	-91.07	-5,885.5	963.8	841.2	734.6	106.56	7.894	
16,300.0	10,352.5	16,368.9	10,368.7	54.0	54.4	-91.06	-5,985.5	962.9	841.2	732.9	108.25	7.771	
16,400.0	10,352.0	16,468.9	10,368.2	54.8	55.2	-91.06	-6,085.5	962.0	841.2	731.2	109.94	7.651	
16,500.0	10,351.5	16,568.9	10,367.6	55.7	56.1	-91.06	-6,185.5	961.1	841.1	729.5	111.63	7.535	
16,600.0	10,351.1	16,668.9	10,367.1	56.5	56.9	-91.05	-6,285.5	960.2	841.1	727.8	113.32	7.422	
16,700.0	10,350.6	16,768.9	10,366.6	57.4	57.8	-91.05	-6,385.5	959.4	841.1	726.1	115.01	7.313	
16,800.0	10,350.2	16,868.9	10,366.1	58.2	58.6	-91.04	-6,485.5	958.5	841.1	724.4	116.71	7.207	
16,900.0	10,349.7	16,968.9	10,365.5	59.1	59.5	-91.04	-6,585.5	957.6	841.0	722.6	118.40	7.103	
17,000.0	10,349.2	17,068.9	10,365.0	59.9	60.3	-91.03	-6,685.4	956.7	841.0	720.9	120.10	7.003	
17,100.0	10,348.8	17,168.9	10,364.5	60.8	61.1	-91.03	-6,785.4	955.8	841.0	719.2	121.79	6.905	
17,200.0	10,348.3	17,268.9	10,364.0	61.6	62.0	-91.02	-6,885.4	954.9	841.0	717.5	123.49	6.810	
17,300.0	10,347.9	17,368.9	10,363.4	62.5	62.8	-91.02	-6,985.4	954.1	841.0	715.8	125.18	6.718	
17,400.0	10,347.4	17,468.9	10,362.9	63.3	63.7	-91.02	-7,085.4	953.2	840.9	714.0	126.88	6.628	
17,500.0	10,346.9	17,568.9	10,362.4	64.2	64.5	-91.01	-7,185.4	952.3	840.9	712.3	128.58	6.540	
17,600.0	10,346.5	17,668.9	10,361.9	65.0	65.4	-91.01	-7,285.4	951.4	840.9	710.6	130.28	6.455	
17,700.0	10,346.0	17,768.9	10,361.3	65.9	66.2	-91.00	-7,385.4	950.5	840.9	708.9	131.97	6.371	
17,800.0	10,345.6	17,868.9	10,360.8	66.7	67.1	-91.00	-7,485.4	949.6	840.8	707.2	133.67	6.290	
17,900.0	10,345.1	17,968.9	10,360.3	67.6	67.9	-90.99	-7,585.4	948.8	840.8	705.4	135.37	6.211	
18,000.0	10,344.6	18,068.9	10,359.8	68.4	68.8	-90.99	-7,685.4	947.9	840.8	703.7	137.07	6.134	
18,100.0	10,344.2	18,168.9	10,359.2	69.3	69.6	-90.99	-7,785.4	947.0	840.8	702.0	138.77	6.059	
18,200.0	10,343.7	18,268.9	10,358.7	70.1	70.5	-90.98	-7,885.4	946.1	840.7	700.3	140.47	5.985	
18,300.0	10,343.3	18,368.9	10,358.2	71.0	71.3	-90.98	-7,985.4	945.2	840.7	698.6	142.17	5.913	
18,400.0	10,342.8	18,468.9	10,357.7	71.8	72.2	-90.97	-8,085.4	944.3	840.7	696.8	143.87	5.843	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9810-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	Depth	Depth	Depth	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
18,500.0	10,342.3	18,568.9	10,357.1	72.7	73.0	-90.97	-8,185.4	943.5	840.7	695.1	145.58	5.775		
18,600.0	10,341.9	18,668.9	10,356.6	73.5	73.9	-90.96	-8,285.4	942.6	840.7	693.4	147.28	5.708		
18,700.0	10,341.4	18,768.9	10,356.1	74.4	74.7	-90.96	-8,385.4	941.7	840.6	691.7	148.98	5.643		
18,800.0	10,341.0	18,868.9	10,355.6	75.2	75.5	-90.95	-8,485.4	940.8	840.6	689.9	150.68	5.579		
18,900.0	10,340.5	18,968.9	10,355.0	76.1	76.4	-90.95	-8,585.3	939.9	840.6	688.2	152.38	5.516		
19,000.0	10,340.0	19,068.9	10,354.5	76.9	77.2	-90.95	-8,685.3	939.0	840.6	686.5	154.09	5.455		
19,100.0	10,339.6	19,168.9	10,354.0	77.8	78.1	-90.94	-8,785.3	938.2	840.5	684.8	155.79	5.395		
19,200.0	10,339.1	19,268.9	10,353.5	78.6	78.9	-90.94	-8,885.3	937.3	840.5	683.0	157.49	5.337		
19,300.0	10,338.7	19,368.9	10,352.9	79.5	79.8	-90.93	-8,985.3	936.4	840.5	681.3	159.20	5.280		
19,400.0	10,338.2	19,468.9	10,352.4	80.3	80.6	-90.93	-9,085.3	935.5	840.5	679.6	160.90	5.224		
19,500.0	10,337.7	19,568.9	10,351.9	81.2	81.5	-90.92	-9,185.3	934.6	840.5	677.8	162.61	5.169		
19,600.0	10,337.3	19,668.9	10,351.4	82.1	82.3	-90.92	-9,285.3	933.7	840.4	676.1	164.31	5.115		
19,700.0	10,336.8	19,768.9	10,350.8	82.9	83.2	-90.92	-9,385.3	932.9	840.4	674.4	166.02	5.062		
19,800.0	10,336.4	19,868.9	10,350.3	83.8	84.1	-90.91	-9,485.3	932.0	840.4	672.7	167.72	5.011		
19,900.0	10,335.9	19,968.9	10,349.8	84.6	84.9	-90.91	-9,585.3	931.1	840.4	670.9	169.43	4.960		
20,000.0	10,335.4	20,068.9	10,349.3	85.5	85.8	-90.90	-9,685.3	930.2	840.3	669.2	171.13	4.911		
20,100.0	10,335.0	20,168.9	10,348.7	86.3	86.6	-90.90	-9,785.3	929.3	840.3	667.5	172.84	4.862		
20,200.0	10,334.5	20,268.9	10,348.2	87.2	87.5	-90.89	-9,885.3	928.4	840.3	665.8	174.54	4.814		
20,300.0	10,334.0	20,368.9	10,347.7	88.0	88.3	-90.89	-9,985.3	927.6	840.3	664.0	176.25	4.768		
20,400.0	10,333.6	20,468.9	10,347.2	88.9	89.2	-90.88	-10,085.3	926.7	840.3	662.3	177.95	4.722		
20,500.0	10,333.1	20,568.9	10,346.6	89.7	90.0	-90.88	-10,185.3	925.8	840.2	660.6	179.66	4.677		
20,600.0	10,332.7	20,668.9	10,346.1	90.6	90.9	-90.88	-10,285.3	924.9	840.2	658.8	181.37	4.633		
20,700.0	10,332.2	20,768.9	10,345.6	91.4	91.7	-90.87	-10,385.3	924.0	840.2	657.1	183.07	4.589		
20,788.6	10,331.8	20,857.5	10,345.1	92.2	92.5	-90.87	-10,473.9	923.2	840.2	655.6	184.59	4.552		
20,800.0	10,331.7	20,867.4	10,345.1	92.3	92.6	-90.87	-10,483.8	923.2	840.1	655.4	184.78	4.547		
20,815.4	10,331.7	20,879.3	10,345.0	92.4	92.7	-90.87	-10,495.7	923.1	840.1	655.1	185.03	4.540		
20,849.4	10,331.5	20,910.3	10,344.8	92.7	92.9	-90.87	-10,526.6	923.1	840.1	654.5	185.59	4.526		
20,900.0	10,331.3	20,960.8	10,344.6	93.2	93.4	-90.87	-10,577.2	923.1	840.1	653.6	186.46	4.505		
21,000.0	10,330.8	21,060.8	10,344.1	94.0	94.2	-90.86	-10,677.2	923.2	840.1	651.9	188.17	4.464		
21,100.0	10,330.4	21,160.8	10,343.5	94.9	95.1	-90.86	-10,777.2	923.3	840.1	650.2	189.88	4.424		
21,200.0	10,329.9	21,260.8	10,343.0	95.7	95.9	-90.85	-10,877.2	923.4	840.1	648.5	191.59	4.385		
21,300.0	10,329.4	21,360.8	10,342.5	96.6	96.8	-90.85	-10,977.2	923.4	840.1	646.8	193.30	4.346		
21,400.0	10,329.0	21,460.8	10,342.0	97.4	97.6	-90.85	-11,077.2	923.5	840.1	645.1	195.01	4.308		
21,500.0	10,328.5	21,560.8	10,341.4	98.3	98.5	-90.84	-11,177.2	923.6	840.1	643.3	196.72	4.270		
21,600.0	10,328.0	21,660.8	10,340.9	99.1	99.3	-90.84	-11,277.2	923.6	840.1	641.6	198.43	4.234		
21,700.0	10,327.6	21,760.8	10,340.4	100.0	100.2	-90.83	-11,377.2	923.7	840.0	639.9	200.14	4.197		
21,800.0	10,327.1	21,860.8	10,339.9	100.9	101.0	-90.83	-11,477.2	923.8	840.0	638.2	201.85	4.162		
21,900.0	10,326.7	21,960.8	10,339.3	101.7	101.9	-90.82	-11,577.2	923.9	840.0	636.5	203.56	4.127		
22,000.0	10,326.2	22,060.8	10,338.8	102.6	102.7	-90.82	-11,677.2	923.9	840.0	634.8	205.27	4.092		
22,100.0	10,325.7	22,160.8	10,338.3	103.4	103.6	-90.82	-11,777.2	924.0	840.0	633.1	206.98	4.059		
22,200.0	10,325.3	22,260.8	10,337.8	104.3	104.5	-90.81	-11,877.2	924.1	840.0	631.3	208.69	4.025		
22,300.0	10,324.8	22,360.8	10,337.2	105.1	105.3	-90.81	-11,977.2	924.1	840.0	629.6	210.40	3.993		
22,400.0	10,324.3	22,460.8	10,336.7	106.0	106.2	-90.80	-12,077.2	924.2	840.0	627.9	212.11	3.960		
22,500.0	10,323.9	22,560.8	10,336.2	106.8	107.0	-90.80	-12,177.2	924.3	840.0	626.2	213.82	3.929		
22,600.0	10,323.4	22,660.8	10,335.7	107.7	107.9	-90.79	-12,277.2	924.4	840.0	624.5	215.53	3.897		
22,700.0	10,323.0	22,760.8	10,335.2	108.6	108.7	-90.79	-12,377.2	924.4	840.0	622.8	217.24	3.867		
22,800.0	10,322.5	22,860.8	10,334.6	109.4	109.6	-90.79	-12,477.2	924.5	840.0	621.1	218.96	3.836		
22,900.0	10,322.0	22,960.8	10,334.1	110.3	110.4	-90.78	-12,577.2	924.6	840.0	619.3	220.67	3.807		
23,000.0	10,321.6	23,060.8	10,333.6	111.1	111.3	-90.78	-12,677.2	924.7	840.0	617.6	222.38	3.777		
23,100.0	10,321.1	23,160.8	10,333.1	112.0	112.1	-90.77	-12,777.2	924.7	840.0	615.9	224.09	3.749		
23,200.0	10,320.6	23,260.8	10,332.5	112.8	113.0	-90.77	-12,877.2	924.8	840.0	614.2	225.80	3.720		

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

ConocoPhillips

Anticollision Report

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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 #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9810-MWD+IFR1+FDIR									Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance					Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
23,300.0	10,320.2	23,360.8	10,332.0	113.7	113.9	-90.77	-12,977.2	924.9	840.0	612.5	227.51	3.692		
23,400.0	10,319.7	23,460.8	10,331.5	114.6	114.7	-90.76	-13,077.2	924.9	840.0	610.8	229.23	3.665		
23,500.0	10,319.3	23,560.8	10,331.0	115.4	115.6	-90.76	-13,177.2	925.0	840.0	609.1	230.94	3.637		
23,600.0	10,318.8	23,660.8	10,330.4	116.3	116.4	-90.75	-13,277.2	925.1	840.0	607.3	232.65	3.611		
23,700.0	10,318.3	23,760.8	10,329.9	117.1	117.3	-90.75	-13,377.2	925.2	840.0	605.6	234.36	3.584		
23,800.0	10,317.9	23,860.8	10,329.4	118.0	118.1	-90.74	-13,477.2	925.2	840.0	603.9	236.07	3.558		
23,900.0	10,317.4	23,960.8	10,328.9	118.8	119.0	-90.74	-13,577.2	925.3	840.0	602.2	237.79	3.533		
24,000.0	10,317.0	24,060.8	10,328.3	119.7	119.8	-90.74	-13,677.2	925.4	840.0	600.5	239.50	3.507		
24,100.0	10,316.5	24,160.8	10,327.8	120.5	120.7	-90.73	-13,777.2	925.4	840.0	598.8	241.21	3.482		
24,200.0	10,316.0	24,260.8	10,327.3	121.4	121.6	-90.73	-13,877.2	925.5	840.0	597.1	242.92	3.458		
24,300.0	10,315.6	24,360.8	10,326.8	122.3	122.4	-90.72	-13,977.2	925.6	840.0	595.3	244.63	3.434		
24,400.0	10,315.1	24,460.8	10,326.2	123.1	123.3	-90.72	-14,077.2	925.7	840.0	593.6	246.35	3.410		
24,500.0	10,314.6	24,560.8	10,325.7	124.0	124.1	-90.71	-14,177.2	925.7	840.0	591.9	248.06	3.386		
24,600.0	10,314.2	24,660.8	10,325.2	124.8	125.0	-90.71	-14,277.2	925.8	840.0	590.2	249.77	3.363		
24,700.0	10,313.7	24,760.8	10,324.7	125.7	125.8	-90.71	-14,377.2	925.9	840.0	588.5	251.49	3.340		
24,800.0	10,313.3	24,860.8	10,324.1	126.5	126.7	-90.70	-14,477.2	926.0	840.0	586.8	253.20	3.317		
24,900.0	10,312.8	24,960.8	10,323.6	127.4	127.5	-90.70	-14,577.2	926.0	840.0	585.0	254.91	3.295		
25,000.0	10,312.3	25,060.8	10,323.1	128.3	128.4	-90.69	-14,677.2	926.1	840.0	583.3	256.62	3.273		
25,100.0	10,311.9	25,160.8	10,322.6	129.1	129.3	-90.69	-14,777.2	926.2	840.0	581.6	258.34	3.251		
25,200.0	10,311.4	25,260.8	10,322.0	130.0	130.1	-90.69	-14,877.2	926.2	839.9	579.9	260.05	3.230		
25,300.0	10,310.9	25,360.8	10,321.5	130.8	131.0	-90.68	-14,977.2	926.3	839.9	578.2	261.76	3.209		
25,400.0	10,310.5	25,460.8	10,321.0	131.7	131.8	-90.68	-15,077.2	926.4	839.9	576.5	263.48	3.188		
25,500.0	10,310.0	25,560.8	10,320.5	132.5	132.7	-90.67	-15,177.2	926.5	839.9	574.8	265.19	3.167		
25,600.0	10,309.6	25,660.8	10,320.0	133.4	133.5	-90.67	-15,277.2	926.5	839.9	573.0	266.90	3.147		
25,700.0	10,309.1	25,760.8	10,319.4	134.3	134.4	-90.66	-15,377.2	926.6	839.9	571.3	268.62	3.127		
25,800.0	10,308.6	25,860.8	10,318.9	135.1	135.2	-90.66	-15,477.2	926.7	839.9	569.6	270.33	3.107		
25,900.0	10,308.2	25,960.8	10,318.4	136.0	136.1	-90.66	-15,577.1	926.7	839.9	567.9	272.04	3.087		
25,935.7	10,308.0	25,996.5	10,318.2	136.3	136.4	-90.65	-15,612.8	926.8	839.9	567.3	272.65	3.081 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9583-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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.4	0.4	3.0	3.0	89.81		+N/-S (usft)	+E/-W (usft)					
100.0	100.0	100.4	100.4	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.00	5.000	
200.0	200.0	200.4	200.4	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.00	4.997	
300.0	300.0	300.4	300.4	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.01	4.992	
400.0	400.0	400.4	400.4	3.0	3.0	89.81		0.1	30.0	30.0	24.0	6.02	4.985	
500.0	500.0	500.4	500.4	3.1	3.1	89.81		0.1	30.0	30.0	24.0	6.03	4.974	
600.0	600.0	600.4	600.4	3.1	3.1	89.81		0.1	30.0	30.0	24.0	6.05	4.961	
700.0	700.0	700.4	700.4	3.1	3.1	89.81		0.1	30.0	30.0	23.9	6.07	4.946	
800.0	800.0	800.4	800.4	3.2	3.2	89.81		0.1	30.0	30.0	23.9	6.09	4.928	
900.0	900.0	900.4	900.4	3.2	3.2	89.81		0.1	30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	1,000.4	1,000.4	3.2	3.2	89.81		0.1	30.0	30.0	23.9	6.14	4.885	
1,100.0	1,100.0	1,100.4	1,100.4	3.3	3.3	89.81		0.1	30.0	30.0	23.8	6.17	4.860	
1,200.0	1,200.0	1,200.4	1,200.4	3.4	3.4	89.81		0.1	30.0	30.0	23.8	6.21	4.833	
1,300.0	1,300.0	1,300.4	1,300.4	3.4	3.4	89.81		0.1	30.0	30.0	23.8	6.24	4.805	
1,400.0	1,400.0	1,400.4	1,400.4	3.5	3.5	89.81		0.1	30.0	30.0	23.7	6.28	4.774	
1,500.0	1,500.0	1,500.4	1,500.4	3.5	3.5	89.81		0.1	30.0	30.0	23.7	6.33	4.742	
1,600.0	1,600.0	1,600.4	1,600.4	3.6	3.6	89.81		0.1	30.0	30.0	23.6	6.37	4.708	
1,700.0	1,700.0	1,700.4	1,700.4	3.7	3.7	89.81		0.1	30.0	30.0	23.6	6.42	4.672	
1,800.0	1,800.0	1,800.4	1,800.4	3.8	3.8	89.81		0.1	30.0	30.0	23.5	6.47	4.635	
1,900.0	1,900.0	1,900.4	1,900.4	3.9	3.9	89.81		0.1	30.0	30.0	23.5	6.53	4.597	
2,000.0	2,000.0	2,000.4	2,000.4	3.9	3.9	89.81		0.1	30.0	30.0	23.4	6.58	4.558	
2,100.0	2,100.0	2,100.4	2,100.4	4.0	4.0	89.81		0.1	30.0	30.0	23.4	6.64	4.518	
2,200.0	2,200.0	2,200.4	2,200.4	4.1	4.1	89.81		0.1	30.0	30.0	23.3	6.70	4.477	
2,300.0	2,300.0	2,300.4	2,300.4	4.2	4.2	89.81		0.1	30.0	30.0	23.2	6.76	4.435	
2,400.0	2,400.0	2,400.4	2,400.4	4.3	4.3	89.81		0.1	30.0	30.0	23.2	6.83	4.392	
2,416.5	2,416.5	2,416.9	2,416.9	4.3	4.3	89.81		0.1	30.0	30.0	23.2	6.84	4.385 CC	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	89.81		0.1	30.0	30.0	23.1	6.90	4.350 ES	
2,600.0	2,600.0	2,599.5	2,599.4	4.5	4.5	125.29		1.0	31.4	32.5	25.5	6.97	4.658	
2,700.0	2,699.8	2,698.2	2,698.0	4.6	4.5	127.14		3.9	35.7	39.8	32.8	7.05	5.651	
2,750.0	2,749.7	2,747.3	2,747.0	4.6	4.6	128.12		5.9	38.9	45.3	38.2	7.09	6.396	
2,800.0	2,799.5	2,796.8	2,796.3	4.7	4.6	129.03		8.3	42.5	51.5	44.4	7.13	7.222	
2,900.0	2,899.1	2,896.1	2,895.2	4.7	4.7	130.31		13.0	49.8	63.9	56.7	7.23	8.842	
3,000.0	2,998.7	2,995.3	2,994.0	4.8	4.8	131.18		17.8	57.0	76.3	69.0	7.33	10.419	
3,100.0	3,098.4	3,094.5	3,092.9	4.9	4.8	131.80		22.5	64.2	88.7	81.3	7.43	11.950	
3,200.0	3,198.0	3,193.7	3,191.7	5.0	4.9	132.27		27.2	71.5	101.2	93.6	7.53	13.434	
3,300.0	3,297.6	3,292.9	3,290.6	5.1	5.0	132.64		32.0	78.7	113.6	106.0	7.64	14.869	
3,400.0	3,397.2	3,392.2	3,389.4	5.2	5.1	132.93		36.7	86.0	126.1	118.3	7.75	16.256	
3,500.0	3,496.8	3,491.4	3,488.3	5.3	5.2	133.17		41.4	93.2	138.5	130.6	7.87	17.595	
3,600.0	3,596.4	3,590.6	3,587.1	5.4	5.2	133.38		46.2	100.4	151.0	143.0	7.99	18.885	
3,700.0	3,696.1	3,689.8	3,685.9	5.5	5.3	133.55		50.9	107.7	163.4	155.3	8.12	20.126	
3,800.0	3,795.7	3,789.1	3,784.8	5.6	5.4	133.69		55.6	114.9	175.9	167.6	8.25	21.321	
3,900.0	3,895.3	3,888.3	3,883.6	5.7	5.5	133.82		60.4	122.1	188.3	179.9	8.38	22.468	
4,000.0	3,994.9	3,987.5	3,982.5	5.8	5.6	133.93		65.1	129.4	200.8	192.2	8.52	23.570	
4,100.0	4,094.5	4,086.7	4,081.3	5.9	5.7	134.03		69.9	136.6	213.2	204.6	8.66	24.627	
4,200.0	4,194.2	4,185.9	4,180.2	6.0	5.8	134.12		74.6	143.8	225.7	216.9	8.80	25.641	
4,300.0	4,293.8	4,285.2	4,279.0	6.1	5.9	134.20		79.3	151.1	238.1	229.2	8.95	26.612	
4,400.0	4,393.4	4,384.4	4,377.8	6.2	6.0	134.27		84.1	158.3	250.6	241.5	9.10	27.543	
4,500.0	4,493.0	4,483.6	4,476.7	6.3	6.1	134.33		88.8	165.6	263.0	253.8	9.25	28.434	
4,600.0	4,592.6	4,582.8	4,575.5	6.5	6.2	134.39		93.5	172.8	275.5	266.1	9.41	29.286	
4,700.0	4,692.3	4,682.0	4,674.4	6.6	6.3	134.45		98.3	180.0	287.9	278.4	9.57	30.102	
4,800.0	4,791.9	4,781.3	4,773.2	6.7	6.4	134.49		103.0	187.3	300.4	290.7	9.73	30.882	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9583-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		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)			
4,815.9	4,807.7	4,797.0	4,788.9	6.7	6.4	134.50	103.7	188.4	302.4	292.6	9.75	31.003	
4,900.0	4,891.6	4,880.5	4,872.1	6.8	6.5	134.53	107.7	194.5	312.4	302.5	9.89	31.590	
5,000.0	4,991.3	4,979.9	4,971.1	6.9	6.6	134.36	112.5	201.8	323.2	313.2	10.05	32.159	
5,100.0	5,091.2	5,079.4	5,070.3	7.0	6.7	133.97	117.2	209.0	332.9	322.7	10.21	32.601	
5,200.0	5,191.2	5,179.0	5,169.4	7.1	6.8	133.39	122.0	216.3	341.3	331.0	10.37	32.921	
5,300.0	5,291.2	5,278.6	5,268.7	7.2	6.9	132.63	126.7	223.5	348.6	338.1	10.53	33.121	
5,315.9	5,307.1	5,294.4	5,284.4	7.3	6.9	97.83	127.5	224.7	349.7	339.2	10.55	33.149	
5,400.0	5,391.2	5,378.2	5,367.9	7.4	7.0	97.05	131.5	230.8	355.3	344.6	10.66	33.321	
5,500.0	5,491.2	5,477.9	5,467.2	7.5	7.1	96.16	136.2	238.1	362.0	351.2	10.80	33.516	
5,600.0	5,591.2	5,577.5	5,566.4	7.6	7.2	95.30	141.0	245.3	368.8	357.8	10.94	33.703	
5,700.0	5,691.2	5,677.1	5,665.6	7.7	7.4	94.48	145.7	252.6	375.6	364.6	11.09	33.882	
5,800.0	5,791.2	5,776.7	5,764.9	7.8	7.5	93.68	150.5	259.9	382.6	371.4	11.24	34.052	
5,900.0	5,891.2	5,876.3	5,864.1	7.9	7.6	92.91	155.3	267.1	389.6	378.2	11.39	34.215	
6,000.0	5,991.2	5,976.0	5,963.4	8.1	7.7	92.17	160.0	274.4	396.7	385.1	11.54	34.370	
6,100.0	6,091.2	6,076.3	6,063.4	8.2	7.8	91.45	164.8	281.7	403.8	392.1	11.70	34.520	
6,200.0	6,191.2	6,182.3	6,169.0	8.3	7.9	90.82	169.2	288.4	410.1	398.2	11.85	34.603	
6,300.0	6,291.2	6,288.5	6,275.0	8.4	8.0	90.35	172.5	293.5	414.8	402.8	12.00	34.556	
6,400.0	6,391.2	6,394.9	6,381.3	8.5	8.2	90.03	174.7	296.9	418.1	405.9	12.16	34.382	
6,500.0	6,491.2	6,501.4	6,487.8	8.7	8.3	89.87	175.9	298.7	419.7	407.4	12.32	34.078	
6,600.0	6,591.2	6,605.1	6,591.6	8.8	8.4	89.85	176.1	299.0	420.0	407.6	12.44	33.768	
6,700.0	6,691.2	6,705.1	6,691.6	8.9	8.5	89.85	176.1	299.0	420.0	407.5	12.54	33.490	
6,800.0	6,791.2	6,805.1	6,791.6	9.0	8.6	89.85	176.1	299.0	420.0	407.4	12.64	33.215	
6,900.0	6,891.2	6,905.1	6,891.6	9.1	8.7	89.85	176.1	299.0	420.0	407.3	12.75	32.943	
7,000.0	6,991.2	7,005.1	6,991.6	9.3	8.8	89.85	176.1	299.0	420.0	407.1	12.85	32.673	
7,100.0	7,091.2	7,105.1	7,091.6	9.4	8.9	89.85	176.1	299.0	420.0	407.0	12.96	32.406	
7,200.0	7,191.2	7,205.1	7,191.6	9.5	9.1	89.85	176.1	299.0	420.0	406.9	13.07	32.142	
7,300.0	7,291.2	7,305.1	7,291.6	9.6	9.2	89.85	176.1	299.0	420.0	406.8	13.17	31.881	
7,400.0	7,391.2	7,405.1	7,391.6	9.8	9.3	89.85	176.1	299.0	420.0	406.7	13.28	31.623	
7,500.0	7,491.2	7,505.1	7,491.6	9.9	9.4	89.85	176.1	299.0	420.0	406.6	13.39	31.367	
7,600.0	7,591.2	7,605.1	7,591.6	10.0	9.5	89.85	176.1	299.0	420.0	406.5	13.50	31.114	
7,700.0	7,691.2	7,705.1	7,691.6	10.1	9.6	89.85	176.1	299.0	420.0	406.4	13.61	30.864	
7,800.0	7,791.2	7,805.1	7,791.6	10.3	9.7	89.85	176.1	299.0	420.0	406.3	13.72	30.617	
7,900.0	7,891.2	7,905.1	7,891.6	10.4	9.8	89.85	176.1	299.0	420.0	406.2	13.83	30.372	
8,000.0	7,991.2	8,005.1	7,991.6	10.5	10.0	89.85	176.1	299.0	420.0	406.1	13.94	30.131	
8,100.0	8,091.2	8,105.1	8,091.6	10.6	10.1	89.85	176.1	299.0	420.0	406.0	14.05	29.892	
8,200.0	8,191.2	8,205.1	8,191.6	10.7	10.2	89.85	176.1	299.0	420.0	405.8	14.16	29.655	
8,300.0	8,291.2	8,305.1	8,291.6	10.9	10.3	89.85	176.1	299.0	420.0	405.7	14.28	29.422	
8,400.0	8,391.2	8,405.1	8,391.6	11.0	10.4	89.85	176.1	299.0	420.0	405.6	14.39	29.191	
8,500.0	8,491.2	8,505.1	8,491.6	11.1	10.5	89.85	176.1	299.0	420.0	405.5	14.50	28.963	
8,600.0	8,591.2	8,605.1	8,591.6	11.2	10.7	89.85	176.1	299.0	420.0	405.4	14.62	28.737	
8,700.0	8,691.2	8,705.1	8,691.6	11.4	10.8	89.85	176.1	299.0	420.0	405.3	14.73	28.514	
8,800.0	8,791.2	8,805.1	8,791.6	11.5	10.9	89.85	176.1	299.0	420.0	405.2	14.84	28.294	
8,900.0	8,891.2	8,905.1	8,891.6	11.6	11.0	89.85	176.1	299.0	420.0	405.0	14.96	28.076	
9,000.0	8,991.2	9,005.1	8,991.6	11.8	11.1	89.85	176.1	299.0	420.0	404.9	15.07	27.861	
9,100.0	9,091.2	9,105.1	9,091.6	11.9	11.3	89.85	176.1	299.0	420.0	404.8	15.19	27.648	
9,200.0	9,191.2	9,205.1	9,191.6	12.0	11.4	89.85	176.1	299.0	420.0	404.7	15.31	27.438	
9,300.0	9,291.2	9,305.1	9,291.6	12.1	11.5	89.85	176.1	299.0	420.0	404.6	15.42	27.231	
9,400.0	9,391.2	9,405.1	9,391.6	12.3	11.6	89.85	176.1	299.0	420.0	404.5	15.54	27.026	
9,500.0	9,491.2	9,505.1	9,491.6	12.4	11.7	89.85	176.1	299.0	420.0	404.3	15.66	26.825	
9,507.7	9,498.8	9,512.8	9,499.2	12.4	11.7	89.85	176.1	299.0	420.0	404.3	15.66	26.812	
9,600.0	9,591.2	9,604.5	9,590.9	12.5	11.8	89.90	175.7	299.0	420.0	404.3	15.75	26.670	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9583-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: 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	9,691.2	9,700.0	9,685.6	12.6	11.8	91.45	164.3	299.5	420.7	404.9	15.82	26.600	
9,800.0	9,791.2	9,789.0	9,771.0	12.8	11.8	94.78	139.8	300.7	423.7	407.7	15.99	26.491	
9,814.1	9,805.3	9,800.0	9,781.3	12.8	11.8	95.31	135.8	300.9	424.4	408.4	16.02	26.499	
9,850.0	9,841.2	9,830.6	9,809.5	12.8	11.9	-80.31	123.8	301.4	426.6	410.4	16.14	26.437	
9,900.0	9,890.9	9,871.3	9,845.8	12.8	11.9	-78.08	105.5	302.3	430.1	413.7	16.39	26.235	
9,950.0	9,939.9	9,911.2	9,880.1	12.8	11.9	-75.94	85.1	303.3	434.1	417.3	16.75	25.915	
10,000.0	9,987.9	9,950.0	9,912.0	12.8	12.0	-73.94	63.0	304.3	438.5	421.3	17.21	25.476	
10,050.0	10,034.6	9,989.0	9,942.5	12.8	12.0	-72.03	38.7	305.4	443.1	425.3	17.74	24.971	
10,100.0	10,079.5	10,027.1	9,970.6	12.9	12.0	-70.27	13.1	306.6	447.8	429.4	18.36	24.395	
10,150.0	10,122.3	10,064.7	9,996.6	12.9	12.1	-68.65	-14.0	307.9	452.5	433.5	19.02	23.788	
10,200.0	10,162.7	10,100.0	10,019.3	12.9	12.1	-67.23	-41.0	309.1	457.1	437.4	19.77	23.127	
10,250.0	10,200.3	10,138.6	10,042.3	13.0	12.2	-65.85	-72.0	310.6	461.6	441.1	20.46	22.564	
10,300.0	10,235.0	10,175.1	10,062.0	13.0	12.2	-64.67	-102.7	312.0	465.7	444.5	21.19	21.979	
10,350.0	10,266.4	10,211.3	10,079.5	13.1	12.3	-63.64	-134.3	313.5	469.5	447.6	21.91	21.427	
10,400.0	10,294.3	10,250.0	10,096.1	13.1	12.3	-62.73	-169.2	315.1	472.9	450.3	22.56	20.957	
10,450.0	10,318.5	10,283.1	10,108.3	13.2	12.3	-62.04	-200.0	316.6	475.7	452.5	23.28	20.438	
10,500.0	10,338.7	10,318.7	10,119.5	13.2	12.4	-61.46	-233.8	318.1	478.1	454.2	23.90	20.004	
10,550.0	10,354.9	10,350.0	10,127.5	13.3	12.4	-61.06	-263.9	319.6	479.9	455.3	24.52	19.571	
10,600.0	10,366.9	10,389.7	10,135.4	13.3	12.5	-60.76	-302.8	321.4	481.0	456.0	24.98	19.255	
10,650.0	10,374.7	10,425.2	10,140.1	13.4	12.5	-60.62	-337.9	323.0	481.6	456.1	25.43	18.938	
10,700.0	10,378.1	10,460.6	10,142.6	13.4	12.5	-60.64	-373.2	324.7	481.5	455.7	25.81	18.656	
10,716.8	10,378.3	10,472.4	10,142.9	13.4	12.6	-60.68	-385.0	325.2	481.3	455.4	25.92	18.570	
10,736.5	10,378.2	10,486.5	10,143.1	13.4	12.6	-60.70	-399.0	325.9	481.2	455.2	26.06	18.468	
10,800.0	10,377.9	10,549.9	10,142.7	13.4	12.6	-60.70	-462.4	328.8	481.2	454.7	26.49	18.169	
10,900.0	10,377.4	10,649.9	10,142.2	13.4	12.8	-60.69	-562.3	333.5	481.2	454.0	27.23	17.671	
11,000.0	10,376.9	10,749.9	10,141.8	13.5	13.0	-60.69	-662.2	338.2	481.3	453.2	28.06	17.150	
11,100.0	10,376.5	10,849.9	10,141.3	13.5	13.2	-60.69	-762.1	342.8	481.3	452.3	28.97	16.615	
11,200.0	10,376.0	10,949.9	10,140.8	13.6	13.6	-60.69	-862.0	347.5	481.3	451.4	29.94	16.076	
11,300.0	10,375.6	11,049.9	10,140.3	13.7	14.0	-60.68	-961.8	352.2	481.3	450.4	30.97	15.540	
11,400.0	10,375.1	11,149.9	10,139.8	14.0	14.5	-60.68	-1,061.7	356.8	481.4	449.3	32.07	15.012	
11,500.0	10,374.6	11,249.9	10,139.3	14.5	15.1	-60.68	-1,161.6	361.5	481.4	448.2	33.21	14.496	
11,600.0	10,374.2	11,349.9	10,138.8	15.2	15.7	-60.68	-1,261.5	366.1	481.4	447.0	34.39	13.997	
11,700.0	10,373.7	11,449.9	10,138.3	15.9	16.3	-60.67	-1,361.4	370.8	481.4	445.8	35.62	13.515	
11,800.0	10,373.2	11,549.9	10,137.8	16.6	17.0	-60.67	-1,461.3	375.5	481.4	444.6	36.89	13.052	
11,900.0	10,372.8	11,649.9	10,137.3	17.4	17.7	-60.67	-1,561.2	380.1	481.5	443.3	38.18	12.609	
12,000.0	10,372.3	11,749.9	10,136.8	18.1	18.5	-60.67	-1,661.1	384.8	481.5	442.0	39.51	12.186	
12,100.0	10,371.9	11,849.9	10,136.3	18.9	19.2	-60.66	-1,761.0	389.5	481.5	440.6	40.86	11.783	
12,200.0	10,371.4	11,949.9	10,135.9	19.7	20.0	-60.66	-1,860.9	394.1	481.5	439.3	42.24	11.399	
12,300.0	10,370.9	12,049.9	10,135.4	20.5	20.7	-60.66	-1,960.7	398.8	481.5	437.9	43.64	11.034	
12,400.0	10,370.5	12,149.9	10,134.9	21.3	21.5	-60.65	-2,060.6	403.5	481.6	436.5	45.06	10.686	
12,500.0	10,370.0	12,249.9	10,134.4	22.1	22.3	-60.65	-2,160.5	408.1	481.6	435.1	46.50	10.356	
12,600.0	10,369.5	12,349.9	10,133.9	22.9	23.1	-60.65	-2,260.4	412.8	481.6	433.6	47.96	10.042	
12,700.0	10,369.1	12,449.9	10,133.4	23.7	23.9	-60.65	-2,360.3	417.5	481.6	432.2	49.43	9.744	
12,800.0	10,368.6	12,549.9	10,132.9	24.5	24.7	-60.64	-2,460.2	422.1	481.6	430.7	50.91	9.460	
12,900.0	10,368.2	12,649.9	10,132.4	25.4	25.5	-60.64	-2,560.1	426.8	481.7	429.3	52.41	9.190	
13,000.0	10,367.7	12,749.9	10,131.9	26.2	26.3	-60.64	-2,660.0	431.5	481.7	427.8	53.92	8.934	
13,100.0	10,367.2	12,849.9	10,131.4	27.0	27.1	-60.64	-2,759.9	436.1	481.7	426.3	55.44	8.689	
13,200.0	10,366.8	12,949.9	10,130.9	27.8	27.9	-60.63	-2,859.7	440.8	481.7	424.8	56.97	8.457	
13,300.0	10,366.3	13,049.9	10,130.5	28.7	28.7	-60.63	-2,959.6	445.5	481.8	423.3	58.50	8.235	
13,400.0	10,365.9	13,149.9	10,130.0	29.5	29.6	-60.63	-3,059.5	450.1	481.8	421.7	60.05	8.023	
13,500.0	10,365.4	13,249.9	10,129.5	30.3	30.4	-60.63	-3,159.4	454.8	481.8	420.2	61.60	7.821	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9583-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		
13,600.0	10,364.9	13,349.9	10,129.0	31.2	31.2	-60.62	-3,259.3	459.5	481.8	418.7	63.16	7.628		
13,700.0	10,364.5	13,449.9	10,128.5	32.0	32.0	-60.62	-3,359.2	464.1	481.8	417.1	64.73	7.444		
13,800.0	10,364.0	13,549.9	10,128.0	32.8	32.9	-60.62	-3,459.1	468.8	481.9	415.6	66.30	7.267		
13,900.0	10,363.5	13,649.9	10,127.5	33.7	33.7	-60.62	-3,559.0	473.5	481.9	414.0	67.88	7.099		
14,000.0	10,363.1	13,749.9	10,127.0	34.5	34.5	-60.61	-3,658.9	478.1	481.9	412.4	69.47	6.937		
14,100.0	10,362.6	13,849.9	10,126.5	35.4	35.4	-60.61	-3,758.8	482.8	481.9	410.9	71.06	6.782		
14,200.0	10,362.2	13,949.9	10,126.0	36.2	36.2	-60.61	-3,858.6	487.5	481.9	409.3	72.65	6.634		
14,300.0	10,361.7	14,049.9	10,125.5	37.0	37.1	-60.61	-3,958.5	492.1	482.0	407.7	74.25	6.491		
14,400.0	10,361.2	14,149.9	10,125.0	37.9	37.9	-60.60	-4,058.4	496.8	482.0	406.1	75.85	6.354		
14,500.0	10,360.8	14,249.9	10,124.6	38.7	38.7	-60.60	-4,158.3	501.5	482.0	404.6	77.46	6.223		
14,600.0	10,360.3	14,349.9	10,124.1	39.6	39.6	-60.60	-4,258.2	506.1	482.0	403.0	79.07	6.096		
14,700.0	10,359.8	14,449.9	10,123.6	40.4	40.4	-60.59	-4,358.1	510.8	482.1	401.4	80.68	5.975		
14,800.0	10,359.4	14,549.9	10,123.1	41.3	41.3	-60.59	-4,458.0	515.5	482.1	399.8	82.30	5.858		
14,900.0	10,358.9	14,649.9	10,122.6	42.1	42.1	-60.59	-4,557.9	520.1	482.1	398.2	83.92	5.745		
15,000.0	10,358.5	14,749.9	10,122.1	43.0	43.0	-60.59	-4,657.8	524.8	482.1	396.6	85.54	5.636		
15,100.0	10,358.0	14,849.9	10,121.6	43.8	43.8	-60.58	-4,757.7	529.5	482.1	395.0	87.16	5.532		
15,200.0	10,357.5	14,949.9	10,121.1	44.7	44.6	-60.58	-4,857.5	534.1	482.2	393.4	88.79	5.430		
15,300.0	10,357.1	15,049.9	10,120.6	45.5	45.5	-60.58	-4,957.4	538.8	482.2	391.8	90.42	5.333		
15,400.0	10,356.6	15,149.9	10,120.1	46.4	46.3	-60.58	-5,057.3	543.4	482.2	390.2	92.05	5.238		
15,423.9	10,356.5	15,173.8	10,120.0	46.6	46.5	-60.58	-5,081.2	544.6	482.2	389.8	92.44	5.216		
15,500.0	10,356.1	15,259.1	10,119.6	47.2	47.3	-60.59	-5,166.4	547.9	482.6	388.9	93.69	5.151		
15,582.0	10,355.8	15,355.2	10,119.1	47.9	48.1	-60.59	-5,262.6	548.6	482.8	387.8	94.98	5.083		
15,600.0	10,355.7	15,373.2	10,119.0	48.1	48.2	-60.59	-5,280.5	548.5	482.8	387.5	95.27	5.067		
15,700.0	10,355.2	15,473.2	10,118.5	48.9	49.1	-60.59	-5,380.5	547.6	482.8	385.9	96.90	4.982		
15,800.0	10,354.8	15,573.2	10,118.0	49.7	49.9	-60.58	-5,480.5	546.7	482.8	384.3	98.53	4.900		
15,900.0	10,354.3	15,673.2	10,117.5	50.6	50.7	-60.58	-5,580.5	545.9	482.8	382.6	100.17	4.820		
16,000.0	10,353.8	15,773.2	10,117.1	51.4	51.6	-60.57	-5,680.5	545.0	482.8	381.0	101.80	4.742		
16,100.0	10,353.4	15,873.2	10,116.6	52.3	52.4	-60.57	-5,780.5	544.1	482.8	379.4	103.44	4.667		
16,200.0	10,352.9	15,973.2	10,116.1	53.1	53.3	-60.57	-5,880.5	543.2	482.8	377.7	105.08	4.595		
16,300.0	10,352.5	16,073.2	10,115.6	54.0	54.1	-60.56	-5,980.5	542.4	482.8	376.1	106.72	4.524		
16,400.0	10,352.0	16,173.2	10,115.1	54.8	55.0	-60.56	-6,080.5	541.5	482.8	374.5	108.36	4.456		
16,500.0	10,351.5	16,273.2	10,114.6	55.7	55.8	-60.55	-6,180.5	540.6	482.8	372.8	110.00	4.389		
16,600.0	10,351.1	16,373.2	10,114.1	56.5	56.7	-60.55	-6,280.5	539.8	482.8	371.2	111.65	4.325		
16,700.0	10,350.6	16,473.2	10,113.6	57.4	57.5	-60.55	-6,380.5	538.9	482.9	369.6	113.29	4.262		
16,800.0	10,350.2	16,573.2	10,113.1	58.2	58.3	-60.54	-6,480.4	538.0	482.9	367.9	114.94	4.201		
16,900.0	10,349.7	16,673.2	10,112.6	59.1	59.2	-60.54	-6,580.4	537.1	482.9	366.3	116.58	4.142		
17,000.0	10,349.2	16,773.2	10,112.1	59.9	60.0	-60.53	-6,680.4	536.3	482.9	364.6	118.23	4.084		
17,100.0	10,348.8	16,873.2	10,111.6	60.8	60.9	-60.53	-6,780.4	535.4	482.9	363.0	119.88	4.028		
17,200.0	10,348.3	16,973.2	10,111.1	61.6	61.7	-60.53	-6,880.4	534.5	482.9	361.4	121.53	3.973		
17,300.0	10,347.9	17,073.2	10,110.6	62.5	62.6	-60.52	-6,980.4	533.6	482.9	359.7	123.18	3.920		
17,400.0	10,347.4	17,173.2	10,110.1	63.3	63.4	-60.52	-7,080.4	532.8	482.9	358.1	124.83	3.868		
17,500.0	10,346.9	17,273.2	10,109.7	64.2	64.3	-60.51	-7,180.4	531.9	482.9	356.4	126.48	3.818		
17,600.0	10,346.5	17,373.2	10,109.2	65.0	65.1	-60.51	-7,280.4	531.0	482.9	354.8	128.14	3.769		
17,700.0	10,346.0	17,473.2	10,108.7	65.9	66.0	-60.51	-7,380.4	530.2	482.9	353.1	129.79	3.721		
17,800.0	10,345.6	17,573.2	10,108.2	66.7	66.8	-60.50	-7,480.4	529.3	482.9	351.5	131.44	3.674		
17,900.0	10,345.1	17,673.2	10,107.7	67.6	67.7	-60.50	-7,580.4	528.4	482.9	349.8	133.10	3.628		
18,000.0	10,344.6	17,773.2	10,107.2	68.4	68.5	-60.49	-7,680.4	527.5	483.0	348.2	134.75	3.584		
18,100.0	10,344.2	17,873.2	10,106.7	69.3	69.4	-60.49	-7,780.4	526.7	483.0	346.6	136.41	3.541		
18,200.0	10,343.7	17,973.2	10,106.2	70.1	70.2	-60.49	-7,880.4	525.8	483.0	344.9	138.07	3.498		
18,300.0	10,343.3	18,073.2	10,105.7	71.0	71.1	-60.48	-7,980.4	524.9	483.0	343.3	139.72	3.457		
18,400.0	10,342.8	18,173.2	10,105.2	71.8	71.9	-60.48	-8,080.4	524.1	483.0	341.6	141.38	3.416		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9583-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)		
18,500.0	10,342.3	18,273.2	10,104.7	72.7	72.8	-60.47	-60.47	-8,180.4	523.2	483.0	340.0	143.04	3.377	
18,600.0	10,341.9	18,373.2	10,104.2	73.5	73.6	-60.47	-60.47	-8,280.4	522.3	483.0	338.3	144.70	3.338	
18,700.0	10,341.4	18,473.2	10,103.7	74.4	74.5	-60.47	-60.47	-8,380.4	521.4	483.0	336.6	146.36	3.300	
18,800.0	10,341.0	18,573.2	10,103.2	75.2	75.3	-60.46	-60.46	-8,480.3	520.6	483.0	335.0	148.02	3.263	
18,900.0	10,340.5	18,673.2	10,102.7	76.1	76.2	-60.46	-60.46	-8,580.3	519.7	483.0	333.3	149.68	3.227	
19,000.0	10,340.0	18,773.2	10,102.2	76.9	77.0	-60.45	-60.45	-8,680.3	518.8	483.0	331.7	151.34	3.192	
19,100.0	10,339.6	18,873.2	10,101.8	77.8	77.9	-60.45	-60.45	-8,780.3	518.0	483.0	330.0	153.00	3.157	
19,200.0	10,339.1	18,973.2	10,101.3	78.6	78.7	-60.45	-60.45	-8,880.3	517.1	483.0	328.4	154.66	3.123	
19,300.0	10,338.7	19,073.2	10,100.8	79.5	79.6	-60.44	-60.44	-8,980.3	516.2	483.1	326.7	156.33	3.090	
19,400.0	10,338.2	19,173.2	10,100.3	80.3	80.4	-60.44	-60.44	-9,080.3	515.3	483.1	325.1	157.99	3.058	
19,500.0	10,337.7	19,273.2	10,099.8	81.2	81.3	-60.43	-60.43	-9,180.3	514.5	483.1	323.4	159.65	3.026	
19,600.0	10,337.3	19,373.2	10,099.3	82.1	82.1	-60.43	-60.43	-9,280.3	513.6	483.1	321.8	161.31	2.995	
19,700.0	10,336.8	19,473.2	10,098.8	82.9	83.0	-60.43	-60.43	-9,380.3	512.7	483.1	320.1	162.98	2.964	
19,800.0	10,336.4	19,573.2	10,098.3	83.8	83.8	-60.42	-60.42	-9,480.3	511.9	483.1	318.4	164.64	2.934	
19,900.0	10,335.9	19,673.2	10,097.8	84.6	84.7	-60.42	-60.42	-9,580.3	511.0	483.1	316.8	166.31	2.905	
20,000.0	10,335.4	19,773.2	10,097.3	85.5	85.6	-60.41	-60.41	-9,680.3	510.1	483.1	315.1	167.97	2.876	
20,100.0	10,335.0	19,873.2	10,096.8	86.3	86.4	-60.41	-60.41	-9,780.3	509.2	483.1	313.5	169.64	2.848	
20,200.0	10,334.5	19,973.2	10,096.3	87.2	87.3	-60.41	-60.41	-9,880.3	508.4	483.1	311.8	171.30	2.820	
20,300.0	10,334.0	20,073.2	10,095.8	88.0	88.1	-60.40	-60.40	-9,980.3	507.5	483.1	310.2	172.97	2.793	
20,400.0	10,333.6	20,173.2	10,095.3	88.9	89.0	-60.40	-60.40	-10,080.3	506.6	483.1	308.5	174.63	2.767	
20,500.0	10,333.1	20,273.2	10,094.8	89.7	89.8	-60.39	-60.39	-10,180.3	505.8	483.1	306.8	176.30	2.740	
20,600.0	10,332.7	20,373.2	10,094.3	90.6	90.7	-60.39	-60.39	-10,280.3	504.9	483.1	305.2	177.96	2.715	
20,700.0	10,332.2	20,473.2	10,093.9	91.4	91.5	-60.39	-60.39	-10,380.2	504.0	483.2	303.5	179.63	2.690	
20,788.6	10,331.8	20,561.8	10,093.4	92.2	92.3	-60.38	-60.38	-10,468.9	503.2	483.2	302.1	181.11	2.668	
20,800.0	10,331.7	20,572.2	10,093.4	92.3	92.4	-60.38	-60.38	-10,479.3	503.2	483.2	301.9	181.30	2.665	
20,815.4	10,331.7	20,585.6	10,093.3	92.4	92.5	-60.38	-60.38	-10,492.7	503.1	483.1	301.6	181.57	2.661	
20,823.2	10,331.6	20,592.5	10,093.3	92.5	92.5	-60.38	-60.38	-10,499.6	503.1	483.1	301.4	181.70	2.659	
20,900.0	10,331.3	20,669.2	10,092.9	93.2	93.2	-60.38	-60.38	-10,576.3	503.1	483.1	300.1	182.98	2.640	
21,000.0	10,330.8	20,769.2	10,092.4	94.0	94.1	-60.37	-60.37	-10,676.3	503.2	483.1	298.5	184.65	2.617	
21,100.0	10,330.4	20,869.2	10,091.9	94.9	94.9	-60.37	-60.37	-10,776.3	503.3	483.2	296.8	186.32	2.593	
21,200.0	10,329.9	20,969.2	10,091.4	95.7	95.8	-60.37	-60.37	-10,876.3	503.4	483.2	295.2	187.99	2.570	
21,300.0	10,329.4	21,069.2	10,090.9	96.6	96.6	-60.37	-60.37	-10,976.3	503.4	483.2	293.5	189.66	2.548	
21,400.0	10,329.0	21,169.2	10,090.4	97.4	97.5	-60.36	-60.36	-11,076.3	503.5	483.2	291.9	191.33	2.525	
21,500.0	10,328.5	21,269.2	10,089.9	98.3	98.3	-60.36	-60.36	-11,176.3	503.6	483.2	290.2	193.00	2.504	
21,600.0	10,328.0	21,369.2	10,089.4	99.1	99.2	-60.36	-60.36	-11,276.3	503.7	483.2	288.6	194.67	2.482	
21,700.0	10,327.6	21,469.2	10,089.0	100.0	100.0	-60.35	-60.35	-11,376.3	503.7	483.2	286.9	196.34	2.461	
21,800.0	10,327.1	21,569.2	10,088.5	100.9	100.9	-60.35	-60.35	-11,476.3	503.8	483.2	285.2	198.01	2.441	
21,900.0	10,326.7	21,669.2	10,088.0	101.7	101.7	-60.35	-60.35	-11,576.3	503.9	483.3	283.6	199.68	2.420	
22,000.0	10,326.2	21,769.2	10,087.5	102.6	102.6	-60.34	-60.34	-11,676.3	503.9	483.3	281.9	201.35	2.400	
22,100.0	10,325.7	21,869.2	10,087.0	103.4	103.5	-60.34	-60.34	-11,776.3	504.0	483.3	280.3	203.02	2.380	
22,200.0	10,325.3	21,969.2	10,086.5	104.3	104.3	-60.34	-60.34	-11,876.3	504.1	483.3	278.6	204.69	2.361	
22,300.0	10,324.8	22,069.2	10,086.0	105.1	105.2	-60.33	-60.33	-11,976.3	504.2	483.3	276.9	206.36	2.342	
22,400.0	10,324.3	22,169.2	10,085.5	106.0	106.0	-60.33	-60.33	-12,076.3	504.2	483.3	275.3	208.04	2.323	
22,500.0	10,323.9	22,269.2	10,085.0	106.8	106.9	-60.33	-60.33	-12,176.3	504.3	483.3	273.6	209.71	2.305	
22,600.0	10,323.4	22,369.2	10,084.5	107.7	107.7	-60.32	-60.32	-12,276.3	504.4	483.4	272.0	211.38	2.287	
22,700.0	10,323.0	22,469.2	10,084.0	108.6	108.6	-60.32	-60.32	-12,376.3	504.4	483.4	270.3	213.05	2.269	
22,800.0	10,322.5	22,569.2	10,083.5	109.4	109.4	-60.32	-60.32	-12,476.3	504.5	483.4	268.7	214.72	2.251	
22,900.0	10,322.0	22,669.2	10,083.0	110.3	110.3	-60.31	-60.31	-12,576.3	504.6	483.4	267.0	216.40	2.234	
23,000.0	10,321.6	22,769.2	10,082.6	111.1	111.2	-60.31	-60.31	-12,676.3	504.7	483.4	265.3	218.07	2.217	
23,100.0	10,321.1	22,869.2	10,082.1	112.0	112.0	-60.31	-60.31	-12,776.3	504.7	483.4	263.7	219.74	2.200	
23,200.0	10,320.6	22,969.2	10,081.6	112.8	112.9	-60.30	-60.30	-12,876.3	504.8	483.4	262.0	221.41	2.183	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9583-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	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
									(usft)	(usft)				
23,300.0	10,320.2	23,069.2	10,081.1	113.7	113.7	-60.30	-12,976.3	504.9	483.4	260.4	223.09	2.167		
23,400.0	10,319.7	23,169.2	10,080.6	114.6	114.6	-60.30	-13,076.3	505.0	483.5	258.7	224.76	2.151		
23,500.0	10,319.3	23,269.2	10,080.1	115.4	115.4	-60.29	-13,176.2	505.0	483.5	257.0	226.43	2.135		
23,600.0	10,318.8	23,369.2	10,079.6	116.3	116.3	-60.29	-13,276.2	505.1	483.5	255.4	228.11	2.120		
23,700.0	10,318.3	23,469.2	10,079.1	117.1	117.2	-60.29	-13,376.2	505.2	483.5	253.7	229.78	2.104		
23,800.0	10,317.9	23,569.2	10,078.6	118.0	118.0	-60.29	-13,476.2	505.2	483.5	252.1	231.45	2.089		
23,900.0	10,317.4	23,669.2	10,078.1	118.8	118.9	-60.28	-13,576.2	505.3	483.5	250.4	233.13	2.074		
24,000.0	10,317.0	23,769.2	10,077.6	119.7	119.7	-60.28	-13,676.2	505.4	483.5	248.7	234.80	2.059		
24,100.0	10,316.5	23,869.2	10,077.1	120.5	120.6	-60.28	-13,776.2	505.5	483.5	247.1	236.48	2.045		
24,200.0	10,316.0	23,969.2	10,076.6	121.4	121.4	-60.27	-13,876.2	505.5	483.6	245.4	238.15	2.030		
24,300.0	10,315.6	24,069.2	10,076.1	122.3	122.3	-60.27	-13,976.2	505.6	483.6	243.8	239.82	2.016		
24,400.0	10,315.1	24,169.2	10,075.7	123.1	123.1	-60.27	-14,076.2	505.7	483.6	242.1	241.50	2.002		
24,500.0	10,314.6	24,269.2	10,075.2	124.0	124.0	-60.26	-14,176.2	505.7	483.6	240.4	243.17	1.989 Advise and Monitor		
24,600.0	10,314.2	24,369.2	10,074.7	124.8	124.9	-60.26	-14,276.2	505.8	483.6	238.8	244.85	1.975 Advise and Monitor		
24,700.0	10,313.7	24,469.2	10,074.2	125.7	125.7	-60.26	-14,376.2	505.9	483.6	237.1	246.52	1.962 Advise and Monitor		
24,800.0	10,313.3	24,569.2	10,073.7	126.5	126.6	-60.25	-14,476.2	506.0	483.6	235.4	248.20	1.949 Advise and Monitor		
24,900.0	10,312.8	24,669.2	10,073.2	127.4	127.4	-60.25	-14,576.2	506.0	483.7	233.8	249.87	1.936 Advise and Monitor		
25,000.0	10,312.3	24,769.2	10,072.7	128.3	128.3	-60.25	-14,676.2	506.1	483.7	232.1	251.55	1.923 Advise and Monitor		
25,100.0	10,311.9	24,869.2	10,072.2	129.1	129.1	-60.24	-14,776.2	506.2	483.7	230.5	253.22	1.910 Advise and Monitor		
25,200.0	10,311.4	24,969.2	10,071.7	130.0	130.0	-60.24	-14,876.2	506.3	483.7	228.8	254.90	1.898 Advise and Monitor		
25,300.0	10,310.9	25,069.2	10,071.2	130.8	130.9	-60.24	-14,976.2	506.3	483.7	227.1	256.57	1.885 Advise and Monitor		
25,400.0	10,310.5	25,169.2	10,070.7	131.7	131.7	-60.23	-15,076.2	506.4	483.7	225.5	258.25	1.873 Advise and Monitor		
25,500.0	10,310.0	25,269.2	10,070.2	132.5	132.6	-60.23	-15,176.2	506.5	483.7	223.8	259.92	1.861 Advise and Monitor		
25,600.0	10,309.6	25,369.2	10,069.7	133.4	133.4	-60.23	-15,276.2	506.5	483.7	222.1	261.60	1.849 Advise and Monitor		
25,700.0	10,309.1	25,469.2	10,069.3	134.3	134.3	-60.22	-15,376.2	506.6	483.8	220.5	263.27	1.837 Advise and Monitor		
25,800.0	10,308.6	25,569.2	10,068.8	135.1	135.1	-60.22	-15,476.2	506.7	483.8	218.8	264.95	1.826 Advise and Monitor		
25,900.0	10,308.2	25,669.2	10,068.3	136.0	136.0	-60.22	-15,576.2	506.8	483.8	217.2	266.62	1.814 Advise and Monitor		
25,935.7	10,308.0	25,704.9	10,068.1	136.3	136.3	-60.22	-15,611.9	506.8	483.8	216.6	267.22	1.810 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.19		-0.1	-30.0	30.0				
100.0	100.0	99.8	99.8	3.0	3.0	-90.19		-0.1	-30.0	30.0	24.0	6.00	5.000	
200.0	200.0	199.8	199.8	3.0	3.0	-90.19		-0.1	-30.0	30.0	24.0	6.00	4.997	
300.0	300.0	299.8	299.8	3.0	3.0	-90.19		-0.1	-30.0	30.0	24.0	6.01	4.992	
400.0	400.0	399.8	399.8	3.0	3.0	-90.19		-0.1	-30.0	30.0	24.0	6.02	4.985	
500.0	500.0	499.8	499.8	3.1	3.1	-90.19		-0.1	-30.0	30.0	24.0	6.03	4.974	
600.0	600.0	599.8	599.8	3.1	3.1	-90.19		-0.1	-30.0	30.0	24.0	6.05	4.961	
700.0	700.0	699.8	699.8	3.1	3.1	-90.19		-0.1	-30.0	30.0	23.9	6.07	4.946	
800.0	800.0	799.8	799.8	3.2	3.2	-90.19		-0.1	-30.0	30.0	23.9	6.09	4.928	
900.0	900.0	899.8	899.8	3.2	3.2	-90.19		-0.1	-30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	999.8	999.8	3.2	3.2	-90.19		-0.1	-30.0	30.0	23.9	6.14	4.885	
1,100.0	1,100.0	1,099.8	1,099.8	3.3	3.3	-90.19		-0.1	-30.0	30.0	23.8	6.17	4.860	
1,200.0	1,200.0	1,199.8	1,199.8	3.4	3.4	-90.19		-0.1	-30.0	30.0	23.8	6.21	4.834	
1,300.0	1,300.0	1,299.8	1,299.8	3.4	3.4	-90.19		-0.1	-30.0	30.0	23.8	6.24	4.805	
1,400.0	1,400.0	1,399.8	1,399.8	3.5	3.5	-90.19		-0.1	-30.0	30.0	23.7	6.28	4.774	
1,500.0	1,500.0	1,499.8	1,499.8	3.5	3.5	-90.19		-0.1	-30.0	30.0	23.7	6.33	4.742	
1,600.0	1,600.0	1,599.8	1,599.8	3.6	3.6	-90.19		-0.1	-30.0	30.0	23.6	6.37	4.708	
1,700.0	1,700.0	1,699.8	1,699.8	3.7	3.7	-90.19		-0.1	-30.0	30.0	23.6	6.42	4.672	
1,800.0	1,800.0	1,799.8	1,799.8	3.8	3.8	-90.19		-0.1	-30.0	30.0	23.5	6.47	4.635	
1,900.0	1,900.0	1,899.8	1,899.8	3.9	3.9	-90.19		-0.1	-30.0	30.0	23.5	6.53	4.597	
2,000.0	2,000.0	1,999.8	1,999.8	3.9	3.9	-90.19		-0.1	-30.0	30.0	23.4	6.58	4.558	
2,100.0	2,100.0	2,099.8	2,099.8	4.0	4.0	-90.19		-0.1	-30.0	30.0	23.4	6.64	4.518	
2,200.0	2,200.0	2,199.8	2,199.8	4.1	4.1	-90.19		-0.1	-30.0	30.0	23.3	6.70	4.477	
2,300.0	2,300.0	2,299.8	2,299.8	4.2	4.2	-90.19		-0.1	-30.0	30.0	23.2	6.76	4.435	
2,400.0	2,400.0	2,399.8	2,399.8	4.3	4.3	-90.19		-0.1	-30.0	30.0	23.2	6.83	4.392	
2,500.0	2,500.0	2,499.8	2,499.8	4.4	4.4	-90.19		-0.1	-30.0	30.0	23.1	6.90	4.349 CC, ES	
2,600.0	2,600.0	2,598.8	2,598.8	4.5	4.5	-57.15		0.4	-31.6	30.7	23.7	6.97	4.400	
2,700.0	2,699.8	2,697.7	2,697.6	4.6	4.5	-61.60		2.1	-36.5	32.8	25.7	7.05	4.649	
2,750.0	2,749.7	2,747.2	2,746.9	4.6	4.5	-64.55		3.3	-40.1	34.5	27.4	7.10	4.853	
2,800.0	2,799.5	2,796.6	2,796.0	4.7	4.6	-67.19		4.8	-44.5	36.8	29.7	7.16	5.144	
2,900.0	2,899.1	2,896.3	2,895.2	4.7	4.6	-70.84		8.1	-54.4	42.5	35.3	7.27	5.852	
3,000.0	2,998.7	2,996.1	2,994.5	4.8	4.7	-73.62		11.5	-64.3	48.4	41.0	7.38	6.559	
3,100.0	3,098.4	3,095.9	3,093.8	4.9	4.8	-75.80		14.8	-74.2	54.3	46.8	7.48	7.261	
3,200.0	3,198.0	3,195.7	3,193.0	5.0	4.8	-77.54		18.2	-84.1	60.3	52.8	7.59	7.954	
3,300.0	3,297.6	3,295.5	3,292.3	5.1	4.9	-78.97		21.5	-93.9	66.4	58.7	7.69	8.637	
3,400.0	3,397.2	3,395.3	3,391.5	5.2	5.0	-80.16		24.8	-103.8	72.5	64.7	7.79	9.307	
3,500.0	3,496.8	3,495.1	3,490.8	5.3	5.0	-81.16		28.2	-113.7	78.6	70.7	7.89	9.963	
3,600.0	3,596.4	3,594.9	3,590.0	5.4	5.1	-82.02		31.5	-123.6	84.7	76.7	7.99	10.605	
3,700.0	3,696.1	3,694.8	3,689.3	5.5	5.2	-82.77		34.9	-133.5	90.9	82.8	8.09	11.231	
3,800.0	3,795.7	3,794.6	3,788.6	5.6	5.3	-83.42		38.2	-143.4	97.0	88.8	8.19	11.841	
3,900.0	3,895.3	3,894.4	3,887.8	5.7	5.4	-83.99		41.5	-153.2	103.2	94.9	8.30	12.433	
4,000.0	3,994.9	3,994.2	3,987.1	5.8	5.4	-84.49		44.9	-163.1	109.4	101.0	8.41	13.009	
4,100.0	4,094.5	4,094.0	4,086.3	5.9	5.5	-84.95		48.2	-173.0	115.5	107.0	8.52	13.568	
4,200.0	4,194.2	4,193.8	4,185.6	6.0	5.6	-85.35		51.6	-182.9	121.7	113.1	8.63	14.109	
4,300.0	4,293.8	4,293.6	4,284.8	6.1	5.7	-85.72		54.9	-192.8	127.9	119.2	8.74	14.632	
4,400.0	4,393.4	4,393.4	4,384.1	6.2	5.8	-86.05		58.2	-202.7	134.1	125.3	8.86	15.138	
4,500.0	4,493.0	4,493.2	4,483.4	6.3	5.9	-86.36		61.6	-212.5	140.4	131.4	8.98	15.627	
4,600.0	4,592.6	4,593.0	4,582.6	6.5	6.0	-86.64		64.9	-222.4	146.6	137.5	9.10	16.098	
4,700.0	4,692.3	4,692.8	4,681.9	6.6	6.1	-86.89		68.3	-232.3	152.8	143.6	9.23	16.553	
4,800.0	4,791.9	4,792.6	4,781.1	6.7	6.2	-87.13		71.6	-242.2	159.0	149.6	9.36	16.990	
4,815.9	4,807.7	4,808.5	4,796.9	6.7	6.2	-87.16		72.1	-243.8	160.0	150.6	9.38	17.058	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9577-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	
4,900.0	4,891.6	4,892.4	4,880.4	6.8	6.3	-87.18	74.9	-252.1	165.2	155.8	9.48	17.426		
5,000.0	4,991.3	4,992.2	4,979.6	6.9	6.4	-86.67	78.3	-262.0	171.6	162.0	9.59	17.884		
5,100.0	5,091.2	5,091.9	5,078.8	7.0	6.5	-85.65	81.6	-271.8	178.1	168.4	9.69	18.369		
5,200.0	5,191.2	5,191.6	5,177.9	7.1	6.6	-84.16	84.9	-281.7	184.8	175.0	9.79	18.876		
5,300.0	5,291.2	5,291.1	5,276.9	7.2	6.7	-82.27	88.3	-291.6	191.9	182.0	9.89	19.395		
5,315.9	5,307.1	5,306.9	5,292.6	7.3	6.7	-116.60	88.8	-293.1	193.0	183.1	9.91	19.477		
5,400.0	5,391.2	5,390.6	5,375.8	7.4	6.8	-114.81	91.6	-301.4	199.3	189.3	10.02	19.894		
5,500.0	5,491.2	5,490.0	5,474.7	7.5	6.9	-112.82	94.9	-311.3	207.1	196.9	10.16	20.376		
5,600.0	5,591.2	5,589.5	5,573.6	7.6	7.0	-110.98	98.3	-321.1	215.0	204.7	10.32	20.841		
5,700.0	5,691.2	5,688.9	5,672.6	7.7	7.1	-109.27	101.6	-331.0	223.2	212.7	10.48	21.292		
5,800.0	5,791.2	5,788.4	5,771.5	7.8	7.2	-107.68	104.9	-340.8	231.5	220.9	10.66	21.727		
5,900.0	5,891.2	5,887.8	5,870.4	7.9	7.3	-106.21	108.2	-350.6	240.0	229.2	10.84	22.150		
6,000.0	5,991.2	5,987.3	5,969.3	8.1	7.4	-104.83	111.6	-360.5	248.7	237.7	11.02	22.560		
6,100.0	6,091.2	6,086.7	6,068.2	8.2	7.5	-103.55	114.9	-370.3	257.5	246.3	11.22	22.958		
6,200.0	6,191.2	6,186.2	6,167.1	8.3	7.6	-102.35	118.2	-380.2	266.4	255.0	11.41	23.345		
6,300.0	6,291.2	6,285.6	6,266.0	8.4	7.8	-101.24	121.6	-390.0	275.4	263.8	11.61	23.722		
6,400.0	6,391.2	6,385.1	6,364.9	8.5	7.9	-100.19	124.9	-399.9	284.6	272.7	11.81	24.089		
6,500.0	6,491.2	6,484.5	6,463.8	8.7	8.0	-99.20	128.2	-409.7	293.8	281.8	12.02	24.447		
6,600.0	6,591.2	6,584.0	6,562.7	8.8	8.1	-98.28	131.5	-419.6	303.1	290.8	12.22	24.796		
6,700.0	6,691.2	6,683.4	6,661.6	8.9	8.2	-97.41	134.9	-429.4	312.4	300.0	12.43	25.136		
6,800.0	6,791.2	6,782.9	6,760.5	9.0	8.3	-96.60	138.2	-439.3	321.9	309.2	12.64	25.469		
6,900.0	6,891.2	6,882.4	6,859.4	9.1	8.4	-95.83	141.5	-449.1	331.3	318.5	12.85	25.794		
7,000.0	6,991.2	6,981.8	6,958.3	9.3	8.6	-95.10	144.8	-459.0	340.9	327.8	13.06	26.111		
7,100.0	7,091.2	7,081.3	7,057.3	9.4	8.7	-94.41	148.2	-468.8	350.5	337.2	13.27	26.421		
7,200.0	7,191.2	7,180.7	7,156.2	9.5	8.8	-93.76	151.5	-478.7	360.1	346.7	13.48	26.724		
7,300.0	7,291.2	7,280.2	7,255.1	9.6	8.9	-93.14	154.8	-488.5	369.8	356.1	13.69	27.021		
7,400.0	7,391.2	7,379.6	7,354.0	9.8	9.0	-92.55	158.2	-498.4	379.6	365.7	13.90	27.310		
7,500.0	7,491.2	7,479.1	7,452.9	9.9	9.1	-92.00	161.5	-508.2	389.3	375.2	14.11	27.594		
7,600.0	7,591.2	7,582.6	7,555.9	10.0	9.3	-91.46	164.8	-518.2	398.8	384.5	14.31	27.871		
7,700.0	7,691.2	7,689.3	7,662.2	10.1	9.4	-91.03	167.7	-526.7	406.8	392.3	14.50	28.047		
7,800.0	7,791.2	7,796.3	7,769.0	10.3	9.5	-90.70	170.0	-533.3	413.0	398.3	14.70	28.100		
7,900.0	7,891.2	7,903.6	7,876.1	10.4	9.6	-90.47	171.6	-538.1	417.4	402.5	14.89	28.033		
8,000.0	7,991.2	8,010.9	7,983.4	10.5	9.7	-90.33	172.6	-541.0	420.1	405.0	15.09	27.848		
8,100.0	8,091.2	8,118.4	8,090.9	10.6	9.9	-90.29	172.9	-542.0	421.0	405.7	15.28	27.557		
8,200.0	8,191.2	8,218.5	8,191.0	10.7	10.0	-90.29	172.9	-542.0	421.0	405.6	15.38	27.369		
8,300.0	8,291.2	8,318.5	8,291.0	10.9	10.1	-90.29	172.9	-542.0	421.0	405.5	15.49	27.185		
8,400.0	8,391.2	8,418.5	8,391.0	11.0	10.2	-90.29	172.9	-542.0	421.0	405.4	15.59	27.002		
8,500.0	8,491.2	8,518.5	8,491.0	11.1	10.3	-90.29	172.9	-542.0	421.0	405.3	15.70	26.820		
8,600.0	8,591.2	8,618.5	8,591.0	11.2	10.4	-90.29	172.9	-542.0	421.0	405.2	15.80	26.641		
8,700.0	8,691.2	8,718.5	8,691.0	11.4	10.5	-90.29	172.9	-542.0	421.0	405.1	15.91	26.462		
8,800.0	8,791.2	8,818.5	8,791.0	11.5	10.6	-90.29	172.9	-542.0	421.0	405.0	16.02	26.286		
8,900.0	8,891.2	8,918.5	8,891.0	11.6	10.7	-90.29	172.9	-542.0	421.0	404.9	16.12	26.111		
9,000.0	8,991.2	9,018.5	8,991.0	11.8	10.8	-90.29	172.9	-542.0	421.0	404.8	16.23	25.937		
9,100.0	9,091.2	9,118.5	9,091.0	11.9	10.9	-90.29	172.9	-542.0	421.0	404.7	16.34	25.765		
9,200.0	9,191.2	9,218.5	9,191.0	12.0	11.0	-90.29	172.9	-542.0	421.0	404.6	16.45	25.595		
9,300.0	9,291.2	9,318.5	9,291.0	12.1	11.1	-90.29	172.9	-542.0	421.0	404.4	16.56	25.426		
9,400.0	9,391.2	9,418.5	9,391.0	12.3	11.2	-90.29	172.9	-542.0	421.0	404.3	16.67	25.259		
9,500.0	9,491.2	9,518.5	9,491.0	12.4	11.3	-90.29	172.9	-542.0	421.0	404.2	16.77	25.099		
9,600.0	9,591.2	9,619.7	9,592.2	12.5	11.3	-90.50	171.3	-541.9	420.9	404.1	16.84	24.999		
9,699.8	9,691.0	9,719.7	9,690.8	12.6	11.4	-92.68	155.4	-541.2	420.6	403.9	16.73	25.140		
9,700.0	9,691.2	9,719.9	9,691.0	12.6	11.4	-92.68	155.3	-541.2	420.6	403.9	16.73	25.140		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
9,800.0	9,791.2	9,812.1	9,778.1	12.8	11.4	-96.73	125.6	-539.8	421.9	405.3	16.57	25.455		
9,814.1	9,805.3	9,824.2	9,789.1	12.8	11.4	-97.40	120.7	-539.6	422.4	405.8	16.58	25.479		
9,850.0	9,841.2	9,854.5	9,816.3	12.8	11.4	83.43	107.3	-538.9	424.0	407.4	16.58	25.567		
9,900.0	9,890.9	9,895.7	9,852.1	12.8	11.5	80.92	86.9	-538.0	426.9	410.2	16.70	25.559		
9,950.0	9,939.9	9,936.0	9,885.6	12.8	11.5	78.49	64.5	-536.9	430.7	413.7	16.97	25.384		
10,000.0	9,987.9	9,975.4	9,916.7	12.8	11.5	76.17	40.3	-535.8	435.0	417.7	17.37	25.050		
10,050.0	10,034.6	10,014.1	9,945.6	12.8	11.6	73.97	14.6	-534.6	439.9	422.0	17.89	24.582		
10,100.0	10,079.5	10,050.0	9,970.7	12.9	11.6	71.98	-10.9	-533.4	445.0	426.4	18.58	23.950		
10,150.0	10,122.3	10,089.6	9,996.6	12.9	11.7	69.96	-40.9	-532.0	450.4	431.1	19.25	23.394		
10,200.0	10,162.7	10,126.6	10,018.8	12.9	11.7	68.17	-70.4	-530.6	455.8	435.8	20.04	22.749		
10,250.0	10,200.3	10,163.1	10,038.9	13.0	11.8	66.53	-100.9	-529.2	461.1	440.3	20.86	22.111		
10,300.0	10,235.0	10,200.0	10,057.1	13.0	11.8	65.02	-132.9	-527.7	466.3	444.7	21.67	21.516		
10,350.0	10,266.4	10,235.1	10,072.4	13.1	11.9	63.71	-164.4	-526.2	471.3	448.7	22.52	20.922		
10,400.0	10,294.3	10,270.6	10,086.0	13.1	11.9	62.54	-197.2	-524.7	475.8	452.5	23.33	20.391		
10,450.0	10,318.5	10,300.0	10,095.7	13.2	12.0	61.62	-224.9	-523.4	480.0	455.8	24.21	19.823		
10,500.0	10,338.7	10,340.9	10,106.8	13.2	12.0	60.67	-264.3	-521.6	483.5	458.7	24.84	19.467		
10,550.0	10,354.9	10,375.8	10,114.0	13.3	12.1	59.97	-298.4	-520.0	486.5	461.0	25.51	19.073		
10,600.0	10,366.9	10,410.6	10,119.1	13.3	12.1	59.42	-332.8	-518.4	489.0	462.8	26.12	18.721		
10,650.0	10,374.7	10,450.0	10,122.3	13.4	12.2	59.00	-372.0	-516.5	490.8	464.1	26.62	18.436		
10,700.0	10,378.1	10,479.9	10,123.0	13.4	12.3	58.79	-401.9	-515.1	491.8	464.7	27.12	18.131		
10,716.8	10,378.3	10,496.6	10,122.9	13.4	12.3	58.75	-418.5	-514.4	491.9	464.7	27.23	18.065		
10,800.0	10,377.9	10,579.9	10,122.5	13.4	12.5	58.76	-501.7	-510.5	491.9	464.1	27.77	17.715		
10,900.0	10,377.4	10,679.9	10,122.1	13.4	12.7	58.76	-601.6	-505.8	491.9	463.4	28.49	17.267		
11,000.0	10,376.9	10,779.9	10,121.7	13.5	13.0	58.76	-701.5	-501.1	491.8	462.6	29.29	16.795		
11,100.0	10,376.5	10,879.9	10,121.2	13.5	13.4	58.76	-801.4	-496.5	491.8	461.7	30.16	16.308		
11,200.0	10,376.0	10,979.9	10,120.8	13.6	13.9	58.77	-901.2	-491.8	491.8	460.7	31.10	15.815		
11,300.0	10,375.6	11,079.9	10,120.4	13.7	14.4	58.77	-1,001.1	-487.1	491.8	459.7	32.10	15.322		
11,400.0	10,375.1	11,179.9	10,120.0	14.0	15.0	58.77	-1,101.0	-482.4	491.7	458.6	33.15	14.833		
11,500.0	10,374.6	11,279.9	10,119.5	14.5	15.6	58.78	-1,200.9	-477.8	491.7	457.4	34.26	14.354		
11,600.0	10,374.2	11,379.9	10,119.1	15.2	16.3	58.78	-1,300.8	-473.1	491.7	456.3	35.41	13.886		
11,700.0	10,373.7	11,479.9	10,118.7	15.9	16.9	58.78	-1,400.7	-468.4	491.6	455.0	36.60	13.433		
11,800.0	10,373.2	11,579.9	10,118.3	16.6	17.6	58.78	-1,500.6	-463.8	491.6	453.8	37.83	12.995		
11,900.0	10,372.8	11,679.9	10,117.8	17.4	18.3	58.79	-1,600.5	-459.1	491.6	452.5	39.09	12.574		
12,000.0	10,372.3	11,779.9	10,117.4	18.1	19.1	58.79	-1,700.4	-454.4	491.6	451.2	40.39	12.171		
12,100.0	10,371.9	11,879.9	10,117.0	18.9	19.8	58.79	-1,800.3	-449.8	491.5	449.8	41.71	11.784		
12,200.0	10,371.4	11,979.9	10,116.6	19.7	20.6	58.80	-1,900.1	-445.1	491.5	448.4	43.06	11.414		
12,300.0	10,370.9	12,079.9	10,116.1	20.5	21.3	58.80	-2,000.0	-440.4	491.5	447.0	44.43	11.062		
12,400.0	10,370.5	12,179.9	10,115.7	21.3	22.1	58.80	-2,099.9	-435.7	491.4	445.6	45.82	10.725		
12,500.0	10,370.0	12,279.9	10,115.3	22.1	22.9	58.80	-2,199.8	-431.1	491.4	444.2	47.23	10.404		
12,600.0	10,369.5	12,379.9	10,114.9	22.9	23.7	58.81	-2,299.7	-426.4	491.4	442.7	48.66	10.098		
12,700.0	10,369.1	12,479.9	10,114.4	23.7	24.4	58.81	-2,399.6	-421.7	491.4	441.3	50.11	9.807		
12,800.0	10,368.6	12,579.9	10,114.0	24.5	25.2	58.81	-2,499.5	-417.1	491.3	439.8	51.56	9.529		
12,900.0	10,368.2	12,679.9	10,113.6	25.4	26.0	58.82	-2,599.4	-412.4	491.3	438.3	53.04	9.264		
13,000.0	10,367.7	12,779.9	10,113.1	26.2	26.8	58.82	-2,699.3	-407.7	491.3	436.7	54.52	9.011		
13,100.0	10,367.2	12,879.9	10,112.7	27.0	27.7	58.82	-2,799.2	-403.1	491.2	435.2	56.02	8.770		
13,200.0	10,366.8	12,979.9	10,112.3	27.8	28.5	58.82	-2,899.0	-398.4	491.2	433.7	57.52	8.540		
13,300.0	10,366.3	13,079.9	10,111.9	28.7	29.3	58.83	-2,998.9	-393.7	491.2	432.1	59.04	8.320		
13,400.0	10,365.9	13,179.9	10,111.4	29.5	30.1	58.83	-3,098.8	-389.0	491.2	430.6	60.56	8.110		
13,500.0	10,365.4	13,279.9	10,111.0	30.3	30.9	58.83	-3,198.7	-384.4	491.1	429.0	62.10	7.909		
13,600.0	10,364.9	13,379.9	10,110.6	31.2	31.7	58.84	-3,298.6	-379.7	491.1	427.5	63.64	7.717		
13,700.0	10,364.5	13,479.9	10,110.2	32.0	32.6	58.84	-3,398.5	-375.0	491.1	425.9	65.18	7.533		

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-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)					
13,800.0	10,364.0	13,579.9	10,109.7	32.8	33.4	58.84	-3,498.4	-370.4	491.0	424.3	66.74	7.358	
13,900.0	10,363.5	13,679.9	10,109.3	33.7	34.2	58.84	-3,598.3	-365.7	491.0	422.7	68.30	7.189	
14,000.0	10,363.1	13,779.9	10,108.9	34.5	35.0	58.85	-3,698.2	-361.0	491.0	421.1	69.87	7.027	
14,100.0	10,362.6	13,879.9	10,108.5	35.4	35.9	58.85	-3,798.1	-356.4	491.0	419.5	71.44	6.872	
14,200.0	10,362.2	13,979.9	10,108.0	36.2	36.7	58.85	-3,897.9	-351.7	490.9	417.9	73.02	6.724	
14,300.0	10,361.7	14,079.9	10,107.6	37.0	37.5	58.86	-3,997.8	-347.0	490.9	416.3	74.60	6.581	
14,400.0	10,361.2	14,179.9	10,107.2	37.9	38.4	58.86	-4,097.7	-342.3	490.9	414.7	76.18	6.443	
14,500.0	10,360.8	14,279.9	10,106.8	38.7	39.2	58.86	-4,197.6	-337.7	490.8	413.1	77.77	6.311	
14,600.0	10,360.3	14,379.9	10,106.3	39.6	40.1	58.86	-4,297.5	-333.0	490.8	411.4	79.37	6.184	
14,700.0	10,359.8	14,479.9	10,105.9	40.4	40.9	58.87	-4,397.4	-328.3	490.8	409.8	80.97	6.062	
14,800.0	10,359.4	14,579.9	10,105.5	41.3	41.7	58.87	-4,497.3	-323.7	490.8	408.2	82.57	5.944	
14,900.0	10,358.9	14,679.9	10,105.0	42.1	42.6	58.87	-4,597.2	-319.0	490.7	406.6	84.17	5.830	
15,000.0	10,358.5	14,779.9	10,104.6	43.0	43.4	58.88	-4,697.1	-314.3	490.7	404.9	85.78	5.720	
15,100.0	10,358.0	14,879.9	10,104.2	43.8	44.3	58.88	-4,797.0	-309.7	490.7	403.3	87.39	5.615	
15,200.0	10,357.5	14,979.9	10,103.8	44.7	45.1	58.88	-4,896.8	-305.0	490.6	401.6	89.00	5.513	
15,300.0	10,357.1	15,079.9	10,103.3	45.5	46.0	58.88	-4,996.7	-300.3	490.6	400.0	90.62	5.414	
15,400.0	10,356.6	15,179.9	10,102.9	46.4	46.8	58.89	-5,096.6	-295.6	490.6	398.3	92.24	5.319	
15,404.8	10,356.6	15,184.5	10,102.9	46.4	46.8	58.89	-5,101.3	-295.4	490.6	398.3	92.32	5.314	
15,423.9	10,356.5	15,200.0	10,102.8	46.6	47.0	58.89	-5,116.7	-294.8	490.6	398.0	92.62	5.297	
15,500.0	10,356.1	15,267.5	10,102.5	47.2	47.5	58.92	-5,184.2	-292.8	490.9	397.1	93.81	5.233	
15,582.0	10,355.8	15,341.6	10,102.2	47.9	48.2	58.93	-5,258.3	-292.5	491.0	395.9	95.08	5.164	
15,589.7	10,355.7	15,346.4	10,102.2	48.0	48.2	58.93	-5,263.1	-292.5	490.9	395.8	95.18	5.158	
15,600.0	10,355.7	15,356.6	10,102.2	48.1	48.3	58.94	-5,273.3	-292.6	490.9	395.6	95.34	5.149	
15,700.0	10,355.2	15,456.6	10,101.7	48.9	49.1	58.94	-5,373.3	-293.4	490.9	394.0	96.95	5.063	
15,800.0	10,354.8	15,556.6	10,101.3	49.7	50.0	58.94	-5,473.3	-294.3	490.9	392.3	98.57	4.980	
15,900.0	10,354.3	15,656.6	10,100.9	50.6	50.8	58.94	-5,573.3	-295.1	490.9	390.7	100.18	4.900	
16,000.0	10,353.8	15,756.6	10,100.5	51.4	51.6	58.95	-5,673.3	-296.0	490.8	389.0	101.80	4.822	
16,100.0	10,353.4	15,856.6	10,100.0	52.3	52.5	58.95	-5,773.3	-296.9	490.8	387.4	103.42	4.746	
16,200.0	10,352.9	15,956.6	10,099.6	53.1	53.3	58.95	-5,873.3	-297.7	490.8	385.7	105.04	4.672	
16,300.0	10,352.5	16,056.6	10,099.2	54.0	54.2	58.95	-5,973.3	-298.6	490.8	384.1	106.66	4.601	
16,400.0	10,352.0	16,156.6	10,098.7	54.8	55.0	58.96	-6,073.3	-299.4	490.7	382.4	108.29	4.532	
16,500.0	10,351.5	16,256.6	10,098.3	55.7	55.9	58.96	-6,173.3	-300.3	490.7	380.8	109.91	4.465	
16,600.0	10,351.1	16,356.6	10,097.9	56.5	56.7	58.96	-6,273.3	-301.1	490.7	379.1	111.54	4.399	
16,700.0	10,350.6	16,456.6	10,097.5	57.4	57.6	58.97	-6,373.3	-302.0	490.7	377.5	113.17	4.336	
16,800.0	10,350.2	16,556.6	10,097.0	58.2	58.4	58.97	-6,473.3	-302.8	490.6	375.8	114.80	4.274	
16,900.0	10,349.7	16,656.6	10,096.6	59.1	59.2	58.97	-6,573.3	-303.7	490.6	374.2	116.43	4.214	
17,000.0	10,349.2	16,756.6	10,096.2	59.9	60.1	58.97	-6,673.3	-304.5	490.6	372.5	118.07	4.155	
17,100.0	10,348.8	16,856.6	10,095.8	60.8	60.9	58.98	-6,773.3	-305.4	490.6	370.9	119.70	4.098	
17,200.0	10,348.3	16,956.6	10,095.3	61.6	61.8	58.98	-6,873.3	-306.2	490.5	369.2	121.34	4.043	
17,300.0	10,347.9	17,056.6	10,094.9	62.5	62.6	58.98	-6,973.3	-307.1	490.5	367.5	122.97	3.989	
17,400.0	10,347.4	17,156.6	10,094.5	63.3	63.5	58.98	-7,073.3	-307.9	490.5	365.9	124.61	3.936	
17,500.0	10,346.9	17,256.6	10,094.0	64.2	64.3	58.99	-7,173.3	-308.8	490.5	364.2	126.25	3.885	
17,600.0	10,346.5	17,356.6	10,093.6	65.0	65.2	58.99	-7,273.3	-309.6	490.4	362.5	127.89	3.835	
17,700.0	10,346.0	17,456.6	10,093.2	65.9	66.0	58.99	-7,373.2	-310.5	490.4	360.9	129.53	3.786	
17,800.0	10,345.6	17,556.6	10,092.8	66.7	66.9	59.00	-7,473.2	-311.3	490.4	359.2	131.17	3.738	
17,900.0	10,345.1	17,656.6	10,092.3	67.6	67.7	59.00	-7,573.2	-312.2	490.4	357.5	132.82	3.692	
18,000.0	10,344.6	17,756.6	10,091.9	68.4	68.6	59.00	-7,673.2	-313.0	490.3	355.9	134.46	3.647	
18,100.0	10,344.2	17,856.6	10,091.5	69.3	69.4	59.00	-7,773.2	-313.9	490.3	354.2	136.11	3.602	
18,200.0	10,343.7	17,956.6	10,091.1	70.1	70.3	59.01	-7,873.2	-314.7	490.3	352.5	137.75	3.559	
18,300.0	10,343.3	18,056.6	10,090.6	71.0	71.1	59.01	-7,973.2	-315.6	490.3	350.9	139.40	3.517	
18,400.0	10,342.8	18,156.6	10,090.2	71.8	72.0	59.01	-8,073.2	-316.5	490.2	349.2	141.04	3.476	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-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)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,500.0	10,342.3	18,256.6	10,089.8	72.7	72.8	59.01	59.01	-8,173.2	-317.3	490.2	347.5	142.69	3.435	
18,600.0	10,341.9	18,356.6	10,089.3	73.5	73.7	59.02	59.02	-8,273.2	-318.2	490.2	345.8	144.34	3.396	
18,700.0	10,341.4	18,456.6	10,088.9	74.4	74.5	59.02	59.02	-8,373.2	-319.0	490.2	344.2	145.99	3.357	
18,800.0	10,341.0	18,556.6	10,088.5	75.2	75.4	59.02	59.02	-8,473.2	-319.9	490.1	342.5	147.64	3.320	
18,900.0	10,340.5	18,656.6	10,088.1	76.1	76.2	59.03	59.03	-8,573.2	-320.7	490.1	340.8	149.29	3.283	
19,000.0	10,340.0	18,756.6	10,087.6	76.9	77.1	59.03	59.03	-8,673.2	-321.6	490.1	339.1	150.94	3.247	
19,100.0	10,339.6	18,856.6	10,087.2	77.8	77.9	59.03	59.03	-8,773.2	-322.4	490.1	337.5	152.59	3.212	
19,200.0	10,339.1	18,956.6	10,086.8	78.6	78.8	59.03	59.03	-8,873.2	-323.3	490.0	335.8	154.24	3.177	
19,300.0	10,338.7	19,056.6	10,086.4	79.5	79.6	59.04	59.04	-8,973.2	-324.1	490.0	334.1	155.90	3.143	
19,400.0	10,338.2	19,156.6	10,085.9	80.3	80.5	59.04	59.04	-9,073.2	-325.0	490.0	332.4	157.55	3.110	
19,500.0	10,337.7	19,256.6	10,085.5	81.2	81.3	59.04	59.04	-9,173.2	-325.8	490.0	330.8	159.20	3.078	
19,600.0	10,337.3	19,356.6	10,085.1	82.1	82.2	59.04	59.04	-9,273.2	-326.7	489.9	329.1	160.86	3.046	
19,700.0	10,336.8	19,456.6	10,084.6	82.9	83.0	59.05	59.05	-9,373.2	-327.5	489.9	327.4	162.51	3.015	
19,800.0	10,336.4	19,556.6	10,084.2	83.8	83.9	59.05	59.05	-9,473.2	-328.4	489.9	325.7	164.17	2.984	
19,900.0	10,335.9	19,656.6	10,083.8	84.6	84.7	59.05	59.05	-9,573.1	-329.2	489.9	324.0	165.82	2.954	
20,000.0	10,335.4	19,756.6	10,083.4	85.5	85.6	59.06	59.06	-9,673.1	-330.1	489.8	322.3	167.48	2.925	
20,100.0	10,335.0	19,856.6	10,082.9	86.3	86.4	59.06	59.06	-9,773.1	-330.9	489.8	320.7	169.14	2.896	
20,200.0	10,334.5	19,956.6	10,082.5	87.2	87.3	59.06	59.06	-9,873.1	-331.8	489.8	319.0	170.79	2.868	
20,300.0	10,334.0	20,056.6	10,082.1	88.0	88.1	59.06	59.06	-9,973.1	-332.6	489.8	317.3	172.45	2.840	
20,400.0	10,333.6	20,156.6	10,081.7	88.9	89.0	59.07	59.07	-10,073.1	-333.5	489.7	315.6	174.11	2.813	
20,500.0	10,333.1	20,256.6	10,081.2	89.7	89.8	59.07	59.07	-10,173.1	-334.3	489.7	313.9	175.77	2.786	
20,600.0	10,332.7	20,356.6	10,080.8	90.6	90.7	59.07	59.07	-10,273.1	-335.2	489.7	312.3	177.42	2.760	
20,700.0	10,332.2	20,456.6	10,080.4	91.4	91.5	59.08	59.08	-10,373.1	-336.0	489.7	310.6	179.08	2.734	
20,788.6	10,331.8	20,545.5	10,080.0	92.2	92.3	59.08	59.08	-10,462.0	-336.8	489.6	309.1	180.56	2.712	
20,800.0	10,331.7	20,558.9	10,079.9	92.3	92.4	59.08	59.08	-10,475.3	-336.9	489.6	308.9	180.76	2.709	
20,815.4	10,331.7	20,576.0	10,079.9	92.4	92.6	59.07	59.07	-10,492.4	-336.9	489.6	308.6	181.03	2.704	
20,900.0	10,331.3	20,660.5	10,079.5	93.2	93.3	59.08	59.08	-10,577.0	-336.8	489.6	307.1	182.44	2.684	
21,000.0	10,330.8	20,760.5	10,079.1	94.0	94.1	59.08	59.08	-10,677.0	-336.7	489.6	305.5	184.10	2.659	
21,100.0	10,330.4	20,860.5	10,078.6	94.9	95.0	59.08	59.08	-10,777.0	-336.7	489.5	303.8	185.76	2.635	
21,200.0	10,329.9	20,960.5	10,078.2	95.7	95.8	59.09	59.09	-10,877.0	-336.6	489.5	302.1	187.43	2.612	
21,300.0	10,329.4	21,060.5	10,077.8	96.6	96.7	59.09	59.09	-10,977.0	-336.5	489.5	300.4	189.09	2.589	
21,400.0	10,329.0	21,160.5	10,077.4	97.4	97.5	59.09	59.09	-11,077.0	-336.4	489.5	298.7	190.75	2.566	
21,500.0	10,328.5	21,260.5	10,076.9	98.3	98.4	59.10	59.10	-11,177.0	-336.4	489.5	297.0	192.42	2.544	
21,600.0	10,328.0	21,360.5	10,076.5	99.1	99.3	59.10	59.10	-11,277.0	-336.3	489.4	295.4	194.08	2.522	
21,700.0	10,327.6	21,460.5	10,076.1	100.0	100.1	59.10	59.10	-11,377.0	-336.2	489.4	293.7	195.74	2.500	
21,800.0	10,327.1	21,560.5	10,075.6	100.9	101.0	59.11	59.11	-11,477.0	-336.1	489.4	292.0	197.41	2.479	
21,900.0	10,326.7	21,660.5	10,075.2	101.7	101.8	59.11	59.11	-11,577.0	-336.1	489.4	290.3	199.07	2.458	
22,000.0	10,326.2	21,760.5	10,074.8	102.6	102.7	59.11	59.11	-11,677.0	-336.0	489.4	288.6	200.74	2.438	
22,100.0	10,325.7	21,860.5	10,074.4	103.4	103.5	59.12	59.12	-11,777.0	-335.9	489.3	286.9	202.40	2.418	
22,200.0	10,325.3	21,960.5	10,073.9	104.3	104.4	59.12	59.12	-11,877.0	-335.8	489.3	285.3	204.07	2.398	
22,300.0	10,324.8	22,060.5	10,073.5	105.1	105.2	59.12	59.12	-11,977.0	-335.8	489.3	283.6	205.73	2.378	
22,400.0	10,324.3	22,160.5	10,073.1	106.0	106.1	59.13	59.13	-12,077.0	-335.7	489.3	281.9	207.40	2.359	
22,500.0	10,323.9	22,260.5	10,072.6	106.8	107.0	59.13	59.13	-12,177.0	-335.6	489.3	280.2	209.06	2.340	
22,600.0	10,323.4	22,360.5	10,072.2	107.7	107.8	59.13	59.13	-12,277.0	-335.5	489.3	278.5	210.73	2.322	
22,700.0	10,323.0	22,460.5	10,071.8	108.6	108.7	59.14	59.14	-12,377.0	-335.5	489.2	276.8	212.40	2.303	
22,800.0	10,322.5	22,560.5	10,071.4	109.4	109.5	59.14	59.14	-12,477.0	-335.4	489.2	275.1	214.06	2.285	
22,900.0	10,322.0	22,660.5	10,070.9	110.3	110.4	59.14	59.14	-12,577.0	-335.3	489.2	273.5	215.73	2.268	
23,000.0	10,321.6	22,760.5	10,070.5	111.1	111.2	59.15	59.15	-12,677.0	-335.2	489.2	271.8	217.40	2.250	
23,100.0	10,321.1	22,860.5	10,070.1	112.0	112.1	59.15	59.15	-12,777.0	-335.1	489.2	270.1	219.06	2.233	
23,200.0	10,320.6	22,960.5	10,069.6	112.8	112.9	59.15	59.15	-12,877.0	-335.1	489.1	268.4	220.73	2.216	
23,300.0	10,320.2	23,060.5	10,069.2	113.7	113.8	59.16	59.16	-12,977.0	-335.0	489.1	266.7	222.40	2.199	

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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 #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9577-MWD+IFR1+FDIR					Rule Assigned:				Offset Well Error:		3.0 usft	
Measured Reference	Vertical	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning		
Depth (usft)	Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
23,400.0	10,319.7	23,160.5	10,068.8	114.6	114.7	59.16	-13,077.0	-334.9	489.1	265.0	224.07	2.183		
23,500.0	10,319.3	23,260.5	10,068.4	115.4	115.5	59.16	-13,177.0	-334.8	489.1	263.3	225.74	2.167		
23,600.0	10,318.8	23,360.5	10,067.9	116.3	116.4	59.17	-13,277.0	-334.8	489.1	261.7	227.40	2.151		
23,700.0	10,318.3	23,460.5	10,067.5	117.1	117.2	59.17	-13,377.0	-334.7	489.0	260.0	229.07	2.135		
23,800.0	10,317.9	23,560.5	10,067.1	118.0	118.1	59.17	-13,477.0	-334.6	489.0	258.3	230.74	2.119		
23,900.0	10,317.4	23,660.5	10,066.6	118.8	118.9	59.18	-13,577.0	-334.5	489.0	256.6	232.41	2.104		
24,000.0	10,317.0	23,760.5	10,066.2	119.7	119.8	59.18	-13,677.0	-334.5	489.0	254.9	234.08	2.089		
24,100.0	10,316.5	23,860.5	10,065.8	120.5	120.6	59.18	-13,777.0	-334.4	489.0	253.2	235.75	2.074		
24,200.0	10,316.0	23,960.5	10,065.4	121.4	121.5	59.19	-13,877.0	-334.3	488.9	251.5	237.42	2.059		
24,300.0	10,315.6	24,060.5	10,064.9	122.3	122.4	59.19	-13,977.0	-334.2	488.9	249.8	239.09	2.045		
24,400.0	10,315.1	24,160.5	10,064.5	123.1	123.2	59.19	-14,077.0	-334.2	488.9	248.2	240.76	2.031		
24,500.0	10,314.6	24,260.5	10,064.1	124.0	124.1	59.20	-14,177.0	-334.1	488.9	246.5	242.43	2.017		
24,600.0	10,314.2	24,360.5	10,063.6	124.8	124.9	59.20	-14,277.0	-334.0	488.9	244.8	244.10	2.003		
24,700.0	10,313.7	24,460.5	10,063.2	125.7	125.8	59.20	-14,377.0	-333.9	488.8	243.1	245.77	1.989 Advise and Monitor		
24,800.0	10,313.3	24,560.5	10,062.8	126.5	126.6	59.21	-14,477.0	-333.9	488.8	241.4	247.44	1.976 Advise and Monitor		
24,900.0	10,312.8	24,660.5	10,062.4	127.4	127.5	59.21	-14,577.0	-333.8	488.8	239.7	249.11	1.962 Advise and Monitor		
25,000.0	10,312.3	24,760.5	10,061.9	128.3	128.3	59.21	-14,677.0	-333.7	488.8	238.0	250.78	1.949 Advise and Monitor		
25,100.0	10,311.9	24,860.5	10,061.5	129.1	129.2	59.22	-14,777.0	-333.6	488.8	236.3	252.45	1.936 Advise and Monitor		
25,200.0	10,311.4	24,960.5	10,061.1	130.0	130.1	59.22	-14,877.0	-333.5	488.8	234.6	254.12	1.923 Advise and Monitor		
25,300.0	10,310.9	25,060.5	10,060.6	130.8	130.9	59.22	-14,977.0	-333.5	488.7	232.9	255.79	1.911 Advise and Monitor		
25,400.0	10,310.5	25,160.5	10,060.2	131.7	131.8	59.23	-15,077.0	-333.4	488.7	231.3	257.46	1.898 Advise and Monitor		
25,500.0	10,310.0	25,260.5	10,059.8	132.5	132.6	59.23	-15,177.0	-333.3	488.7	229.6	259.13	1.886 Advise and Monitor		
25,600.0	10,309.6	25,360.5	10,059.4	133.4	133.5	59.23	-15,277.0	-333.2	488.7	227.9	260.80	1.874 Advise and Monitor		
25,700.0	10,309.1	25,460.5	10,058.9	134.3	134.3	59.24	-15,377.0	-333.2	488.7	226.2	262.47	1.862 Advise and Monitor		
25,800.0	10,308.6	25,560.5	10,058.5	135.1	135.2	59.24	-15,477.0	-333.1	488.6	224.5	264.15	1.850 Advise and Monitor		
25,900.0	10,308.2	25,660.5	10,058.1	136.0	136.1	59.24	-15,577.0	-333.0	488.6	222.8	265.82	1.838 Advise and Monitor		
25,918.1	10,308.1	25,678.7	10,058.0	136.1	136.2	59.24	-15,595.1	-333.0	488.6	222.5	266.12	1.836 Advise and Monitor, SF		
25,935.7	10,308.0	25,678.8	10,058.0	136.3	136.2	59.24	-15,595.2	-333.0	488.9	222.8	266.11	1.837 Advise and Monitor		

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

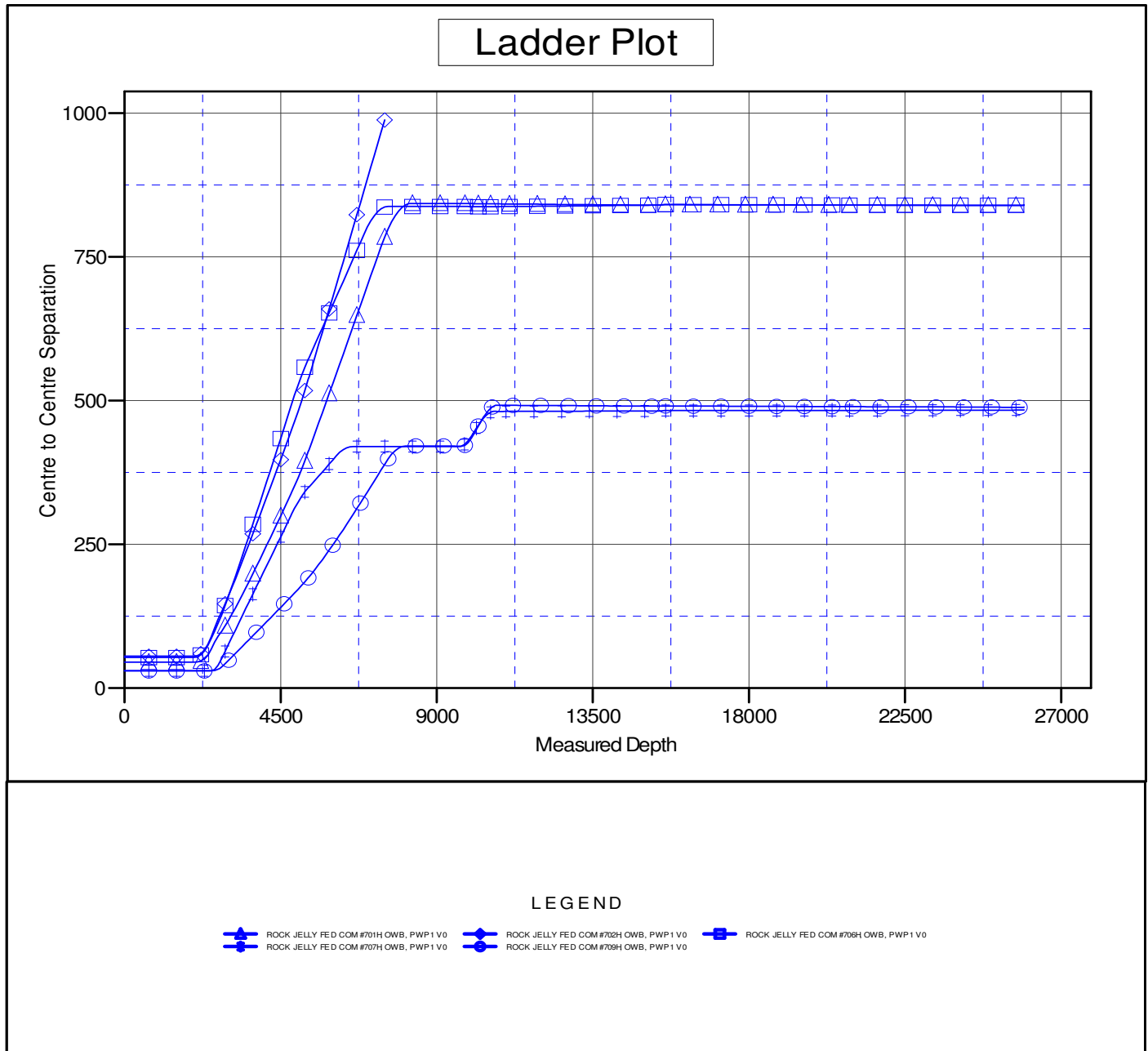
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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' @ 3002.7usft (P84)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #708H
 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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #708H	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' @ 3002.7usft (P84)

Offset Depths are relative to Offset Datum

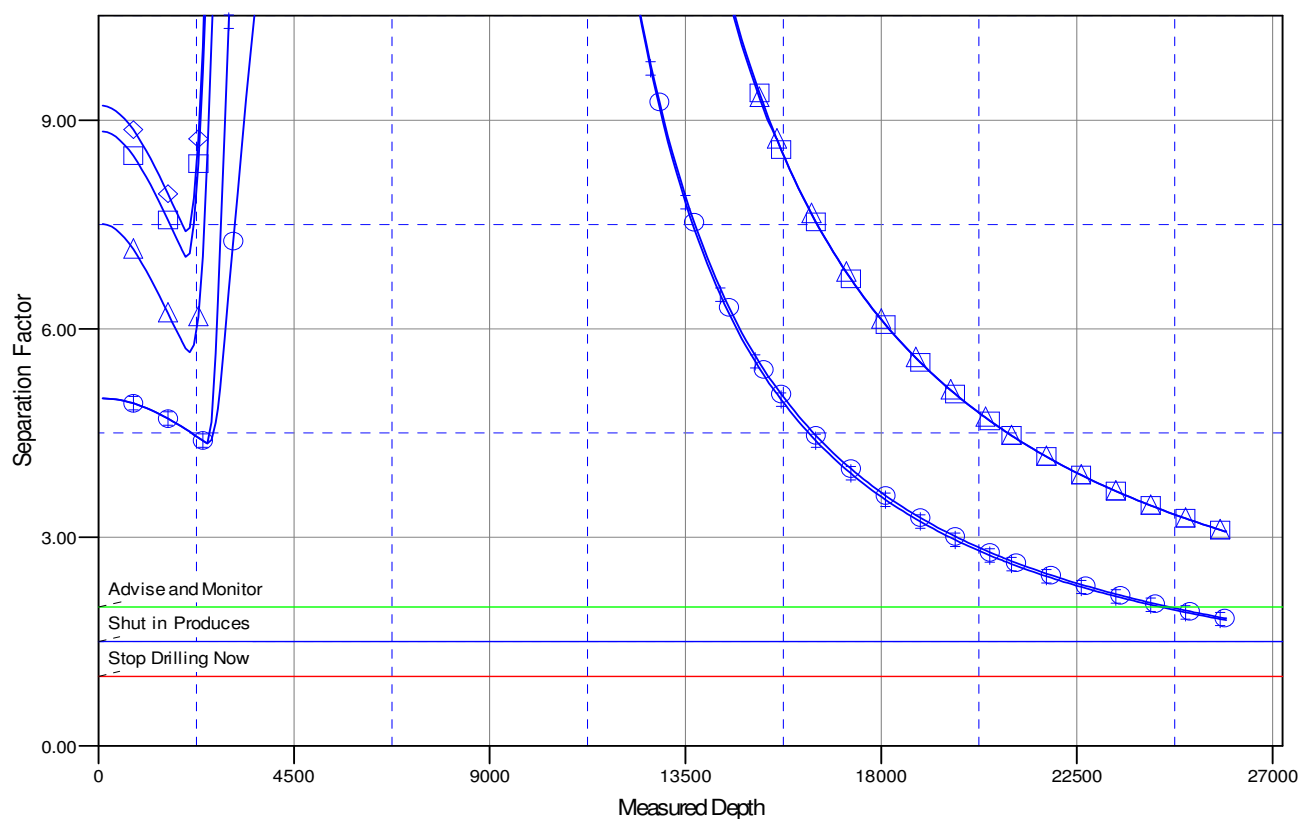
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #708H

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 #701H OWB, PWP1 V0
 ROCK JELLY FED COM #702H OWB, PWP1 V0
 ROCK JELLY FED COM #708H 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 #708H

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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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 #708H					
Well Position	+N-S	0.0 usft	Northing:	392,346.60 usft	Latitude:	32° 4' 41.324 N
	+E-W	0.0 usft	Easting:	613,618.10 usft	Longitude:	103° 57' 59.424 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,977.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	12/16/2021	6.64	59.69	47,529.91017783

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	179.68	

Survey Tool Program	Date	1/18/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,814.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,814.0	25,935.7	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 #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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	325.34	2,600.0	1.4	-1.0	-1.4	2.00	2.00	0.00
2,700.0	4.00	325.34	2,699.8	5.7	-4.0	-5.8	2.00	2.00	0.00
2,750.0	5.00	325.34	2,749.7	9.0	-6.2	-9.0	2.00	2.00	0.00
Start 2065.9 hold at 2750.0 MD									
2,800.0	5.00	325.34	2,799.5	12.6	-8.7	-12.6	0.00	0.00	0.00
2,900.0	5.00	325.34	2,899.1	19.7	-13.6	-19.8	0.00	0.00	0.00
3,000.0	5.00	325.34	2,998.7	26.9	-18.6	-27.0	0.00	0.00	0.00
3,100.0	5.00	325.34	3,098.4	34.1	-23.5	-34.2	0.00	0.00	0.00
3,200.0	5.00	325.34	3,198.0	41.2	-28.5	-41.4	0.00	0.00	0.00
3,300.0	5.00	325.34	3,297.6	48.4	-33.5	-48.6	0.00	0.00	0.00
3,400.0	5.00	325.34	3,397.2	55.6	-38.4	-55.8	0.00	0.00	0.00
3,500.0	5.00	325.34	3,496.8	62.7	-43.4	-63.0	0.00	0.00	0.00
3,600.0	5.00	325.34	3,596.4	69.9	-48.3	-70.2	0.00	0.00	0.00
3,700.0	5.00	325.34	3,696.1	77.1	-53.3	-77.4	0.00	0.00	0.00
3,800.0	5.00	325.34	3,795.7	84.2	-58.2	-84.6	0.00	0.00	0.00
3,900.0	5.00	325.34	3,895.3	91.4	-63.2	-91.8	0.00	0.00	0.00
4,000.0	5.00	325.34	3,994.9	98.6	-68.2	-99.0	0.00	0.00	0.00
4,100.0	5.00	325.34	4,094.5	105.7	-73.1	-106.2	0.00	0.00	0.00
4,200.0	5.00	325.34	4,194.2	112.9	-78.1	-113.3	0.00	0.00	0.00
4,300.0	5.00	325.34	4,293.8	120.1	-83.0	-120.5	0.00	0.00	0.00
4,400.0	5.00	325.34	4,393.4	127.3	-88.0	-127.7	0.00	0.00	0.00
4,500.0	5.00	325.34	4,493.0	134.4	-92.9	-134.9	0.00	0.00	0.00
4,600.0	5.00	325.34	4,592.6	141.6	-97.9	-142.1	0.00	0.00	0.00
4,700.0	5.00	325.34	4,692.3	148.8	-102.9	-149.3	0.00	0.00	0.00
4,800.0	5.00	325.34	4,791.9	155.9	-107.8	-156.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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)
4,815.9	5.00	325.34	4,807.7	157.1	-108.6	-157.7	0.00	0.00	0.00
Start Drop -1.00									
4,900.0	4.16	325.34	4,891.6	162.6	-112.4	-163.2	1.00	-1.00	0.00
5,000.0	3.16	325.34	4,991.3	167.8	-116.0	-168.5	1.00	-1.00	0.00
5,100.0	2.16	325.34	5,091.2	171.7	-118.7	-172.3	1.00	-1.00	0.00
5,200.0	1.16	325.34	5,191.2	174.0	-120.3	-174.7	1.00	-1.00	0.00
5,300.0	0.16	325.34	5,291.2	175.0	-121.0	-175.7	1.00	-1.00	0.00
5,315.9	0.00	0.00	5,307.1	175.0	-121.0	-175.7	1.00	-1.00	218.17
Start 4498.2 hold at 5315.9 MD									
5,400.0	0.00	0.00	5,391.2	175.0	-121.0	-175.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,491.2	175.0	-121.0	-175.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,591.2	175.0	-121.0	-175.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,691.2	175.0	-121.0	-175.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,791.2	175.0	-121.0	-175.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,891.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,991.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,091.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,191.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,291.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,391.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,491.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,591.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,691.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,791.2	175.0	-121.0	-175.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,891.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,991.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,091.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,191.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,291.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,391.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,491.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,591.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,691.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,791.2	175.0	-121.0	-175.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,891.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,991.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,091.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,191.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,291.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,391.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,491.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,591.2	175.0	-121.0	-175.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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)
8,700.0	0.00	0.00	8,691.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,791.2	175.0	-121.0	-175.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,891.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,991.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,091.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,191.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,291.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,391.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,491.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,591.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,691.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,791.2	175.0	-121.0	-175.7	0.00	0.00	0.00
9,814.1	0.00	0.00	9,805.3	175.0	-121.0	-175.7	0.00	0.00	0.00
Start DLS 10.00 TFO 177.33									
9,900.0	8.59	177.33	9,890.9	168.6	-120.7	-169.3	10.00	10.00	0.00
10,000.0	18.59	177.33	9,987.9	145.1	-119.6	-145.8	10.00	10.00	0.00
10,100.0	28.59	177.33	10,079.5	105.2	-117.7	-105.9	10.00	10.00	0.00
10,200.0	38.59	177.33	10,162.7	50.0	-115.2	-50.7	10.00	10.00	0.00
10,300.0	48.59	177.33	10,235.0	-18.8	-112.0	18.1	10.00	10.00	0.00
10,400.0	58.59	177.33	10,294.3	-99.0	-108.2	98.4	10.00	10.00	0.00
10,500.0	68.59	177.33	10,338.7	-188.4	-104.1	187.8	10.00	10.00	0.00
10,600.0	78.59	177.33	10,366.9	-284.1	-99.6	283.5	10.00	10.00	0.00
10,700.0	88.59	177.33	10,378.1	-383.2	-95.0	382.7	10.00	10.00	0.00
10,716.8	90.26	177.33	10,378.3	-400.0	-94.2	399.5	10.00	10.00	0.00
Start 4707.1 hold at 10716.8 MD									
10,800.0	90.26	177.33	10,377.9	-483.1	-90.3	482.6	0.00	0.00	0.00
10,900.0	90.26	177.33	10,377.4	-583.0	-85.7	582.5	0.00	0.00	0.00
11,000.0	90.26	177.33	10,376.9	-682.9	-81.0	682.4	0.00	0.00	0.00
11,100.0	90.26	177.33	10,376.5	-782.8	-76.3	782.4	0.00	0.00	0.00
11,200.0	90.26	177.33	10,376.0	-882.7	-71.7	882.3	0.00	0.00	0.00
11,300.0	90.26	177.33	10,375.6	-982.6	-67.0	982.2	0.00	0.00	0.00
11,400.0	90.26	177.33	10,375.1	-1,082.5	-62.4	1,082.1	0.00	0.00	0.00
11,500.0	90.26	177.33	10,374.6	-1,182.4	-57.7	1,182.0	0.00	0.00	0.00
11,600.0	90.26	177.33	10,374.2	-1,282.3	-53.0	1,281.9	0.00	0.00	0.00
11,700.0	90.26	177.33	10,373.7	-1,382.1	-48.4	1,381.9	0.00	0.00	0.00
11,800.0	90.26	177.33	10,373.2	-1,482.0	-43.7	1,481.8	0.00	0.00	0.00
11,900.0	90.26	177.33	10,372.8	-1,581.9	-39.1	1,581.7	0.00	0.00	0.00
12,000.0	90.26	177.33	10,372.3	-1,681.8	-34.4	1,681.6	0.00	0.00	0.00
12,100.0	90.26	177.33	10,371.9	-1,781.7	-29.8	1,781.5	0.00	0.00	0.00
12,200.0	90.26	177.33	10,371.4	-1,881.6	-25.1	1,881.4	0.00	0.00	0.00
12,300.0	90.26	177.33	10,370.9	-1,981.5	-20.4	1,981.3	0.00	0.00	0.00
12,400.0	90.26	177.33	10,370.5	-2,081.4	-15.8	2,081.3	0.00	0.00	0.00
12,500.0	90.26	177.33	10,370.0	-2,181.3	-11.1	2,181.2	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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)
12,600.0	90.26	177.33	10,369.5	-2,281.2	-6.5	2,281.1	0.00	0.00	0.00
12,700.0	90.26	177.33	10,369.1	-2,381.0	-1.8	2,381.0	0.00	0.00	0.00
12,800.0	90.26	177.33	10,368.6	-2,480.9	2.8	2,480.9	0.00	0.00	0.00
12,900.0	90.26	177.33	10,368.2	-2,580.8	7.5	2,580.8	0.00	0.00	0.00
13,000.0	90.26	177.33	10,367.7	-2,680.7	12.2	2,680.7	0.00	0.00	0.00
13,100.0	90.26	177.33	10,367.2	-2,780.6	16.8	2,780.7	0.00	0.00	0.00
13,200.0	90.26	177.33	10,366.8	-2,880.5	21.5	2,880.6	0.00	0.00	0.00
13,300.0	90.26	177.33	10,366.3	-2,980.4	26.1	2,980.5	0.00	0.00	0.00
13,400.0	90.26	177.33	10,365.9	-3,080.3	30.8	3,080.4	0.00	0.00	0.00
13,500.0	90.26	177.33	10,365.4	-3,180.2	35.5	3,180.3	0.00	0.00	0.00
13,600.0	90.26	177.33	10,364.9	-3,280.1	40.1	3,280.2	0.00	0.00	0.00
13,700.0	90.26	177.33	10,364.5	-3,380.0	44.8	3,380.1	0.00	0.00	0.00
13,800.0	90.26	177.33	10,364.0	-3,479.8	49.4	3,480.1	0.00	0.00	0.00
13,900.0	90.26	177.33	10,363.5	-3,579.7	54.1	3,580.0	0.00	0.00	0.00
14,000.0	90.26	177.33	10,363.1	-3,679.6	58.7	3,679.9	0.00	0.00	0.00
14,100.0	90.26	177.33	10,362.6	-3,779.5	63.4	3,779.8	0.00	0.00	0.00
14,200.0	90.26	177.33	10,362.2	-3,879.4	68.1	3,879.7	0.00	0.00	0.00
14,300.0	90.26	177.33	10,361.7	-3,979.3	72.7	3,979.6	0.00	0.00	0.00
14,400.0	90.26	177.33	10,361.2	-4,079.2	77.4	4,079.6	0.00	0.00	0.00
14,500.0	90.26	177.33	10,360.8	-4,179.1	82.0	4,179.5	0.00	0.00	0.00
14,600.0	90.26	177.33	10,360.3	-4,279.0	86.7	4,279.4	0.00	0.00	0.00
14,700.0	90.26	177.33	10,359.8	-4,378.9	91.3	4,379.3	0.00	0.00	0.00
14,800.0	90.26	177.33	10,359.4	-4,478.7	96.0	4,479.2	0.00	0.00	0.00
14,900.0	90.26	177.33	10,358.9	-4,578.6	100.7	4,579.1	0.00	0.00	0.00
15,000.0	90.26	177.33	10,358.5	-4,678.5	105.3	4,679.0	0.00	0.00	0.00
15,100.0	90.26	177.33	10,358.0	-4,778.4	110.0	4,779.0	0.00	0.00	0.00
15,200.0	90.26	177.33	10,357.5	-4,878.3	114.6	4,878.9	0.00	0.00	0.00
15,300.0	90.26	177.33	10,357.1	-4,978.2	119.3	4,978.8	0.00	0.00	0.00
15,400.0	90.26	177.33	10,356.6	-5,078.1	124.0	5,078.7	0.00	0.00	0.00
15,423.9	90.26	177.33	10,356.5	-5,101.9	125.1	5,102.5	0.00	0.00	0.00
Start DLS 2.00 TFO 90.01									
15,500.0	90.26	178.85	10,356.1	-5,178.0	127.6	5,178.6	2.00	0.00	2.00
15,582.0	90.26	180.49	10,355.8	-5,260.0	128.1	5,260.7	2.00	0.00	2.00
Start 5206.6 hold at 15582.0 MD									
15,600.0	90.26	180.49	10,355.7	-5,278.0	127.9	5,278.6	0.00	0.00	0.00
15,700.0	90.26	180.49	10,355.2	-5,378.0	127.1	5,378.6	0.00	0.00	0.00
15,800.0	90.26	180.49	10,354.8	-5,478.0	126.2	5,478.6	0.00	0.00	0.00
15,900.0	90.26	180.49	10,354.3	-5,578.0	125.3	5,578.6	0.00	0.00	0.00
16,000.0	90.26	180.49	10,353.8	-5,678.0	124.5	5,678.6	0.00	0.00	0.00
16,100.0	90.26	180.49	10,353.4	-5,778.0	123.6	5,778.6	0.00	0.00	0.00
16,200.0	90.26	180.49	10,352.9	-5,878.0	122.7	5,878.6	0.00	0.00	0.00
16,300.0	90.26	180.49	10,352.5	-5,978.0	121.9	5,978.6	0.00	0.00	0.00
16,400.0	90.26	180.49	10,352.0	-6,078.0	121.0	6,078.6	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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)
16,500.0	90.26	180.49	10,351.5	-6,178.0	120.2	6,178.5	0.00	0.00	0.00
16,600.0	90.26	180.49	10,351.1	-6,278.0	119.3	6,278.5	0.00	0.00	0.00
16,700.0	90.26	180.49	10,350.6	-6,378.0	118.4	6,378.5	0.00	0.00	0.00
16,800.0	90.26	180.49	10,350.2	-6,478.0	117.6	6,478.5	0.00	0.00	0.00
16,900.0	90.26	180.49	10,349.7	-6,577.9	116.7	6,578.5	0.00	0.00	0.00
17,000.0	90.26	180.49	10,349.2	-6,677.9	115.9	6,678.5	0.00	0.00	0.00
17,100.0	90.26	180.49	10,348.8	-6,777.9	115.0	6,778.5	0.00	0.00	0.00
17,200.0	90.26	180.49	10,348.3	-6,877.9	114.1	6,878.5	0.00	0.00	0.00
17,300.0	90.26	180.49	10,347.9	-6,977.9	113.3	6,978.5	0.00	0.00	0.00
17,400.0	90.26	180.49	10,347.4	-7,077.9	112.4	7,078.4	0.00	0.00	0.00
17,500.0	90.26	180.49	10,346.9	-7,177.9	111.5	7,178.4	0.00	0.00	0.00
17,600.0	90.26	180.49	10,346.5	-7,277.9	110.7	7,278.4	0.00	0.00	0.00
17,700.0	90.26	180.49	10,346.0	-7,377.9	109.8	7,378.4	0.00	0.00	0.00
17,800.0	90.26	180.49	10,345.6	-7,477.9	109.0	7,478.4	0.00	0.00	0.00
17,900.0	90.26	180.49	10,345.1	-7,577.9	108.1	7,578.4	0.00	0.00	0.00
18,000.0	90.26	180.49	10,344.6	-7,677.9	107.2	7,678.4	0.00	0.00	0.00
18,100.0	90.26	180.49	10,344.2	-7,777.9	106.4	7,778.4	0.00	0.00	0.00
18,200.0	90.26	180.49	10,343.7	-7,877.9	105.5	7,878.4	0.00	0.00	0.00
18,300.0	90.26	180.49	10,343.3	-7,977.9	104.6	7,978.3	0.00	0.00	0.00
18,400.0	90.26	180.49	10,342.8	-8,077.9	103.8	8,078.3	0.00	0.00	0.00
18,500.0	90.26	180.49	10,342.3	-8,177.9	102.9	8,178.3	0.00	0.00	0.00
18,600.0	90.26	180.49	10,341.9	-8,277.9	102.1	8,278.3	0.00	0.00	0.00
18,700.0	90.26	180.49	10,341.4	-8,377.9	101.2	8,378.3	0.00	0.00	0.00
18,800.0	90.26	180.49	10,341.0	-8,477.9	100.3	8,478.3	0.00	0.00	0.00
18,900.0	90.26	180.49	10,340.5	-8,577.9	99.5	8,578.3	0.00	0.00	0.00
19,000.0	90.26	180.49	10,340.0	-8,677.8	98.6	8,678.3	0.00	0.00	0.00
19,100.0	90.26	180.49	10,339.6	-8,777.8	97.8	8,778.3	0.00	0.00	0.00
19,200.0	90.26	180.49	10,339.1	-8,877.8	96.9	8,878.2	0.00	0.00	0.00
19,300.0	90.26	180.49	10,338.7	-8,977.8	96.0	8,978.2	0.00	0.00	0.00
19,400.0	90.26	180.49	10,338.2	-9,077.8	95.2	9,078.2	0.00	0.00	0.00
19,500.0	90.26	180.49	10,337.7	-9,177.8	94.3	9,178.2	0.00	0.00	0.00
19,600.0	90.26	180.49	10,337.3	-9,277.8	93.4	9,278.2	0.00	0.00	0.00
19,700.0	90.26	180.49	10,336.8	-9,377.8	92.6	9,378.2	0.00	0.00	0.00
19,800.0	90.26	180.49	10,336.4	-9,477.8	91.7	9,478.2	0.00	0.00	0.00
19,900.0	90.26	180.49	10,335.9	-9,577.8	90.9	9,578.2	0.00	0.00	0.00
20,000.0	90.26	180.49	10,335.4	-9,677.8	90.0	9,678.2	0.00	0.00	0.00
20,100.0	90.26	180.49	10,335.0	-9,777.8	89.1	9,778.1	0.00	0.00	0.00
20,200.0	90.26	180.49	10,334.5	-9,877.8	88.3	9,878.1	0.00	0.00	0.00
20,300.0	90.26	180.49	10,334.0	-9,977.8	87.4	9,978.1	0.00	0.00	0.00
20,400.0	90.26	180.49	10,333.6	-10,077.8	86.6	10,078.1	0.00	0.00	0.00
20,500.0	90.26	180.49	10,333.1	-10,177.8	85.7	10,178.1	0.00	0.00	0.00
20,600.0	90.26	180.49	10,332.7	-10,277.8	84.8	10,278.1	0.00	0.00	0.00
20,700.0	90.26	180.49	10,332.2	-10,377.8	84.0	10,378.1	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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)
20,788.6	90.26	180.49	10,331.8	-10,466.4	83.2	10,466.7	0.00	0.00	0.00
Start DLS 2.00 TFO -89.88									
20,800.0	90.26	180.27	10,331.7	-10,477.8	83.1	10,478.1	2.00	0.00	-2.00
20,815.4	90.26	179.96	10,331.7	-10,493.2	83.1	10,493.5	2.00	0.00	-2.00
Start 5120.3 hold at 20815.4 MD									
20,900.0	90.26	179.96	10,331.3	-10,577.8	83.2	10,578.1	0.00	0.00	0.00
21,000.0	90.26	179.96	10,330.8	-10,677.8	83.2	10,678.1	0.00	0.00	0.00
21,100.0	90.26	179.96	10,330.4	-10,777.8	83.3	10,778.1	0.00	0.00	0.00
21,200.0	90.26	179.96	10,329.9	-10,877.8	83.4	10,878.1	0.00	0.00	0.00
21,300.0	90.26	179.96	10,329.4	-10,977.8	83.5	10,978.1	0.00	0.00	0.00
21,400.0	90.26	179.96	10,329.0	-11,077.8	83.5	11,078.0	0.00	0.00	0.00
21,500.0	90.26	179.96	10,328.5	-11,177.8	83.6	11,178.0	0.00	0.00	0.00
21,600.0	90.26	179.96	10,328.0	-11,277.8	83.7	11,278.0	0.00	0.00	0.00
21,700.0	90.26	179.96	10,327.6	-11,377.8	83.8	11,378.0	0.00	0.00	0.00
21,800.0	90.26	179.96	10,327.1	-11,477.8	83.8	11,478.0	0.00	0.00	0.00
21,900.0	90.26	179.96	10,326.7	-11,577.7	83.9	11,578.0	0.00	0.00	0.00
22,000.0	90.26	179.96	10,326.2	-11,677.7	84.0	11,678.0	0.00	0.00	0.00
22,100.0	90.26	179.96	10,325.7	-11,777.7	84.1	11,778.0	0.00	0.00	0.00
22,200.0	90.26	179.96	10,325.3	-11,877.7	84.1	11,878.0	0.00	0.00	0.00
22,300.0	90.26	179.96	10,324.8	-11,977.7	84.2	11,978.0	0.00	0.00	0.00
22,400.0	90.26	179.96	10,324.3	-12,077.7	84.3	12,078.0	0.00	0.00	0.00
22,500.0	90.26	179.96	10,323.9	-12,177.7	84.4	12,178.0	0.00	0.00	0.00
22,600.0	90.26	179.96	10,323.4	-12,277.7	84.4	12,278.0	0.00	0.00	0.00
22,700.0	90.26	179.96	10,323.0	-12,377.7	84.5	12,378.0	0.00	0.00	0.00
22,800.0	90.26	179.96	10,322.5	-12,477.7	84.6	12,478.0	0.00	0.00	0.00
22,900.0	90.26	179.96	10,322.0	-12,577.7	84.6	12,578.0	0.00	0.00	0.00
23,000.0	90.26	179.96	10,321.6	-12,677.7	84.7	12,678.0	0.00	0.00	0.00
23,100.0	90.26	179.96	10,321.1	-12,777.7	84.8	12,778.0	0.00	0.00	0.00
23,200.0	90.26	179.96	10,320.6	-12,877.7	84.9	12,878.0	0.00	0.00	0.00
23,300.0	90.26	179.96	10,320.2	-12,977.7	84.9	12,978.0	0.00	0.00	0.00
23,400.0	90.26	179.96	10,319.7	-13,077.7	85.0	13,078.0	0.00	0.00	0.00
23,500.0	90.26	179.96	10,319.3	-13,177.7	85.1	13,178.0	0.00	0.00	0.00
23,600.0	90.26	179.96	10,318.8	-13,277.7	85.2	13,278.0	0.00	0.00	0.00
23,700.0	90.26	179.96	10,318.3	-13,377.7	85.2	13,378.0	0.00	0.00	0.00
23,800.0	90.26	179.96	10,317.9	-13,477.7	85.3	13,478.0	0.00	0.00	0.00
23,900.0	90.26	179.96	10,317.4	-13,577.7	85.4	13,578.0	0.00	0.00	0.00
24,000.0	90.26	179.96	10,317.0	-13,677.7	85.5	13,678.0	0.00	0.00	0.00
24,100.0	90.26	179.96	10,316.5	-13,777.7	85.5	13,778.0	0.00	0.00	0.00
24,200.0	90.26	179.96	10,316.0	-13,877.7	85.6	13,878.0	0.00	0.00	0.00
24,300.0	90.26	179.96	10,315.6	-13,977.7	85.7	13,978.0	0.00	0.00	0.00
24,400.0	90.26	179.96	10,315.1	-14,077.7	85.8	14,078.0	0.00	0.00	0.00
24,500.0	90.26	179.96	10,314.6	-14,177.7	85.8	14,178.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	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)
24,600.0	90.26	179.96	10,314.2	-14,277.7	85.9	14,278.0	0.00	0.00	0.00
24,700.0	90.26	179.96	10,313.7	-14,377.7	86.0	14,378.0	0.00	0.00	0.00
24,800.0	90.26	179.96	10,313.3	-14,477.7	86.1	14,478.0	0.00	0.00	0.00
24,900.0	90.26	179.96	10,312.8	-14,577.7	86.1	14,578.0	0.00	0.00	0.00
25,000.0	90.26	179.96	10,312.3	-14,677.7	86.2	14,678.0	0.00	0.00	0.00
25,100.0	90.26	179.96	10,311.9	-14,777.7	86.3	14,778.0	0.00	0.00	0.00
25,200.0	90.26	179.96	10,311.4	-14,877.7	86.4	14,878.0	0.00	0.00	0.00
25,300.0	90.26	179.96	10,310.9	-14,977.7	86.4	14,978.0	0.00	0.00	0.00
25,400.0	90.26	179.96	10,310.5	-15,077.7	86.5	15,078.0	0.00	0.00	0.00
25,500.0	90.26	179.96	10,310.0	-15,177.7	86.6	15,178.0	0.00	0.00	0.00
25,600.0	90.26	179.96	10,309.6	-15,277.7	86.7	15,278.0	0.00	0.00	0.00
25,700.0	90.26	179.96	10,309.1	-15,377.7	86.7	15,378.0	0.00	0.00	0.00
25,800.0	90.26	179.96	10,308.6	-15,477.7	86.8	15,477.9	0.00	0.00	0.00
25,900.0	90.26	179.96	10,308.2	-15,577.7	86.9	15,577.9	0.00	0.00	0.00
25,935.7	90.26	179.96	10,308.0	-15,613.4	86.9	15,613.6	0.00	0.00	0.00
TD at 25935.7									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL(ROCK JELLY F	0.26	359.96	10,308.0	-15,613.4	86.9	376,733.20	613,705.00	32° 2' 6.804 N	103° 57' 59.031 W
- plan hits target center									
- Rectangle (sides W100.0 H5,145.0 D20.0)									
LTP(ROCK JELLY FE	0.00	0.00	10,308.0	-15,483.2	85.2	376,863.40	613,703.30	32° 2' 8.092 N	103° 57' 59.046 W
- plan misses target center by 1.7usft at 25805.5usft MD (10308.6 TVD, -15483.2 N, 86.8 E)									
- Point									
POI#2(ROCK JELLY I	0.26	0.49	10,331.8	-10,466.4	83.2	381,880.22	613,701.31	32° 2' 57.741 N	103° 57' 58.871 W
- plan hits target center									
- Rectangle (sides W100.0 H5,351.0 D20.0)									
POI#1(ROCK JELLY I	0.26	357.33	10,356.5	-5,101.9	125.1	387,244.68	613,743.17	32° 3' 50.829 N	103° 57' 58.172 W
- plan hits target center									
- Rectangle (sides W100.0 H5,326.0 D20.0)									
FTP(ROCK JELLY FE	0.00	0.00	10,378.0	-75.4	-111.6	392,271.20	613,506.50	32° 4' 40.581 N	103° 58' 0.724 W
- plan misses target center by 84.4usft at 10416.0usft MD (10302.4 TVD, -112.8 N, -107.6 E)									
- Circle (radius 50.0)									

ConocoPhillips

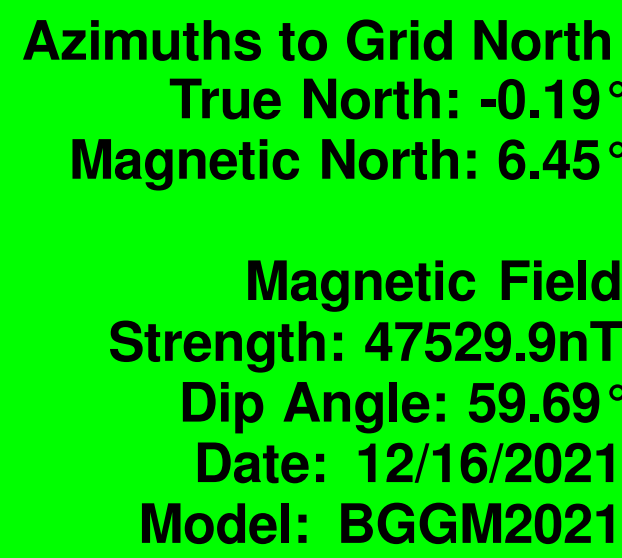
Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #708H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.7usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.7usft (P84)
Well:	ROCK JELLY FED COM #708H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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
2750	2750	9	-6	Start 2065.9 hold at 2750.0 MD
4816	4808	157	-109	Start Drop -1.00
5316	5307	175	-121	Start 4498.2 hold at 5315.9 MD
9814	9805	175	-121	Start DLS 10.00 TFO 177.33
10,717	10,378	-400	-94	Start 4707.1 hold at 10716.8 MD
15,424	10,357	-5102	125	Start DLS 2.00 TFO 90.01
15,582	10,356	-5260	128	Start 5206.6 hold at 15582.0 MD
20,789	10,332	-10,466	83	Start DLS 2.00 TFO -89.88
20,815	10,332	-10,493	83	Start 5120.3 hold at 20815.4 MD
25,936	10,308	-15,613	87	TD at 25935.7

Checked By: _____ Approved By: _____ Date: _____



KB=25' @ 3002.7usft (P84)

WELL DETAILS: ROCK JELLY FED COM #708H

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP(ROCK JELLY FED COM #708H)	10308.0	-15483.2	85.2	376863.40	613703.30	32° 2' 8.092 N	103° 57' 59.046 W
PBHL(ROCK JELLY FED COM #708H)	10308.0	-15613.4	86.9	376733.20	613705.00	32° 2' 6.804 N	103° 57' 59.031 W
POI#2(ROCK JELLY FED COM #708H)	10331.8	-10466.4	83.2	381880.22	613701.31	32° 2' 57.741 N	103° 57' 58.871 W
POI#1(ROCK JELLY FED COM #708H)	10356.5	-5101.9	125.1	387244.68	613743.17	32° 3' 50.829 N	103° 57' 58.172 W
FTR(ROCK JELLY FED COM #708H)	10378.0	-75.4	-111.6	392271.20	613506.50	32° 4' 40.581 N	103° 58' 0.724 W

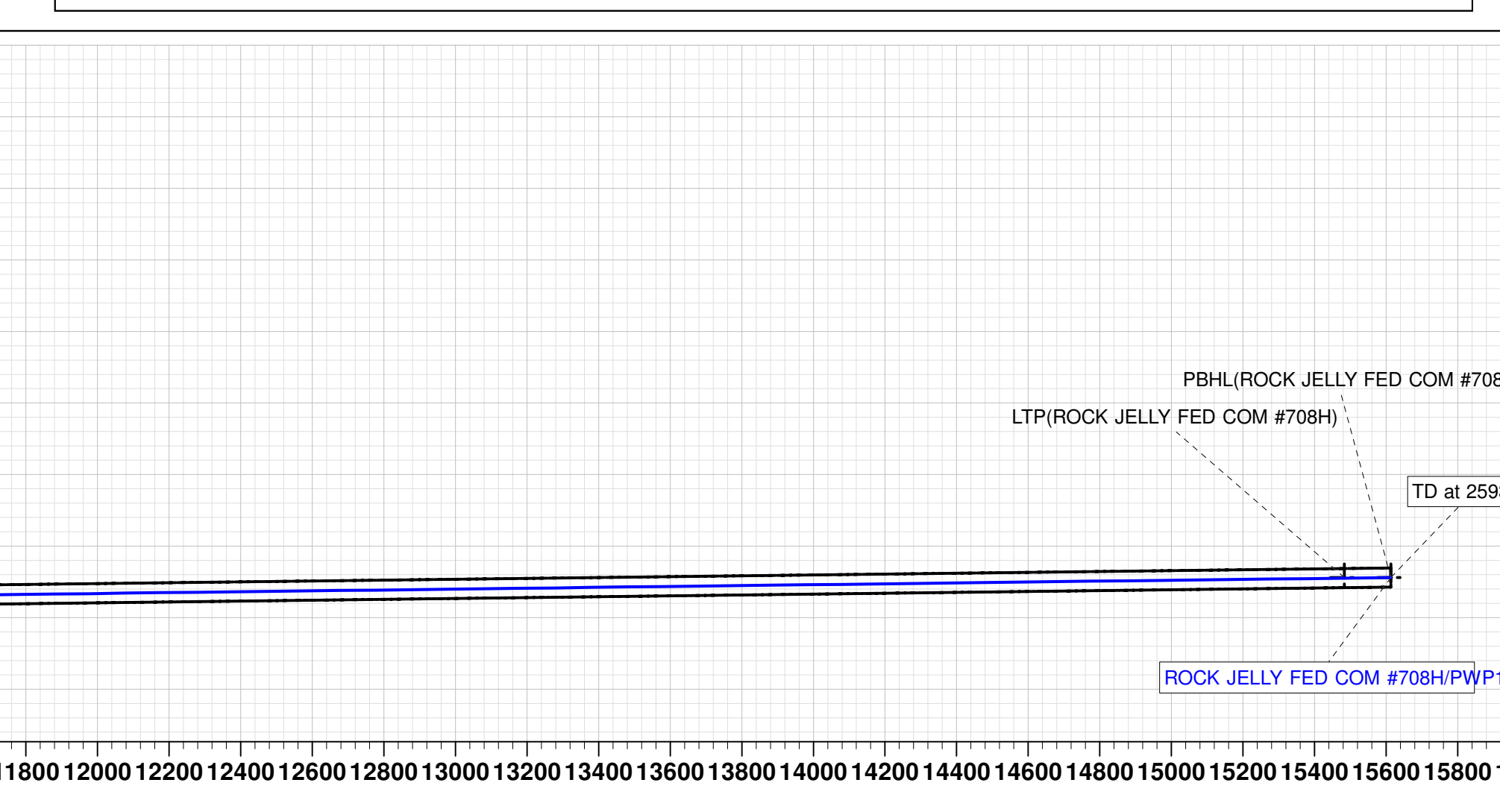
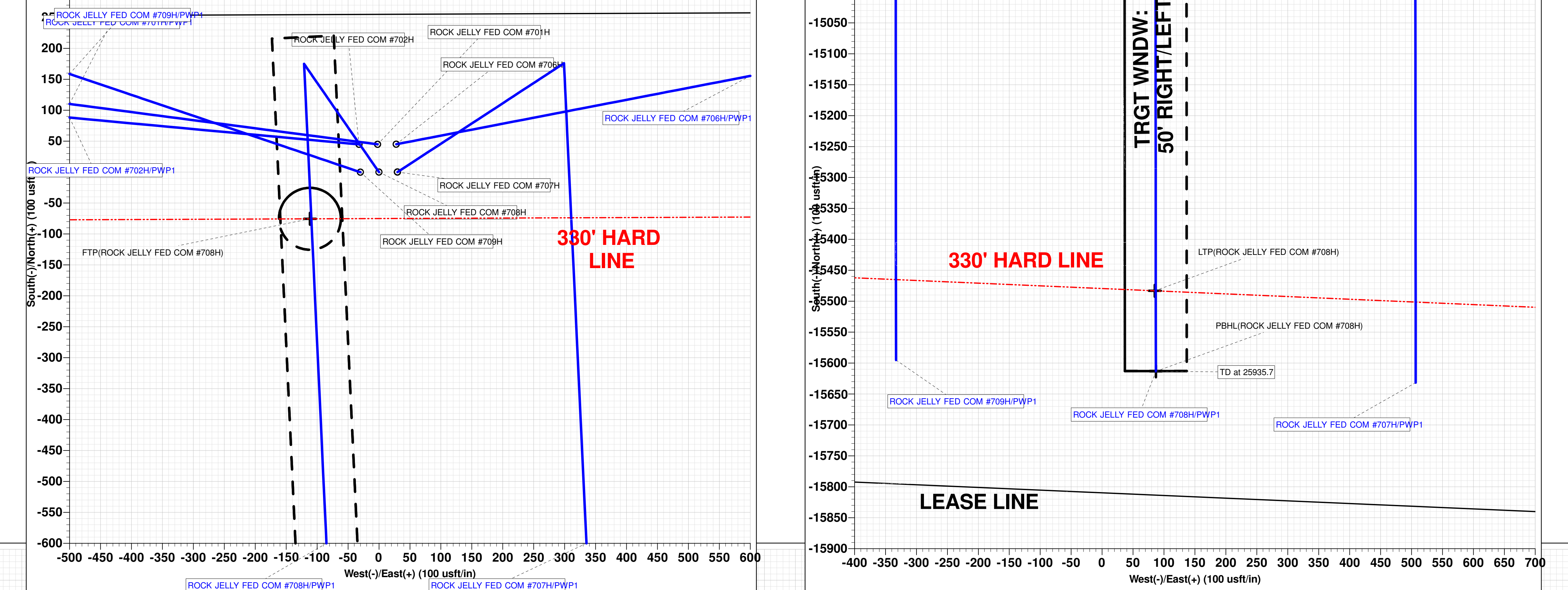
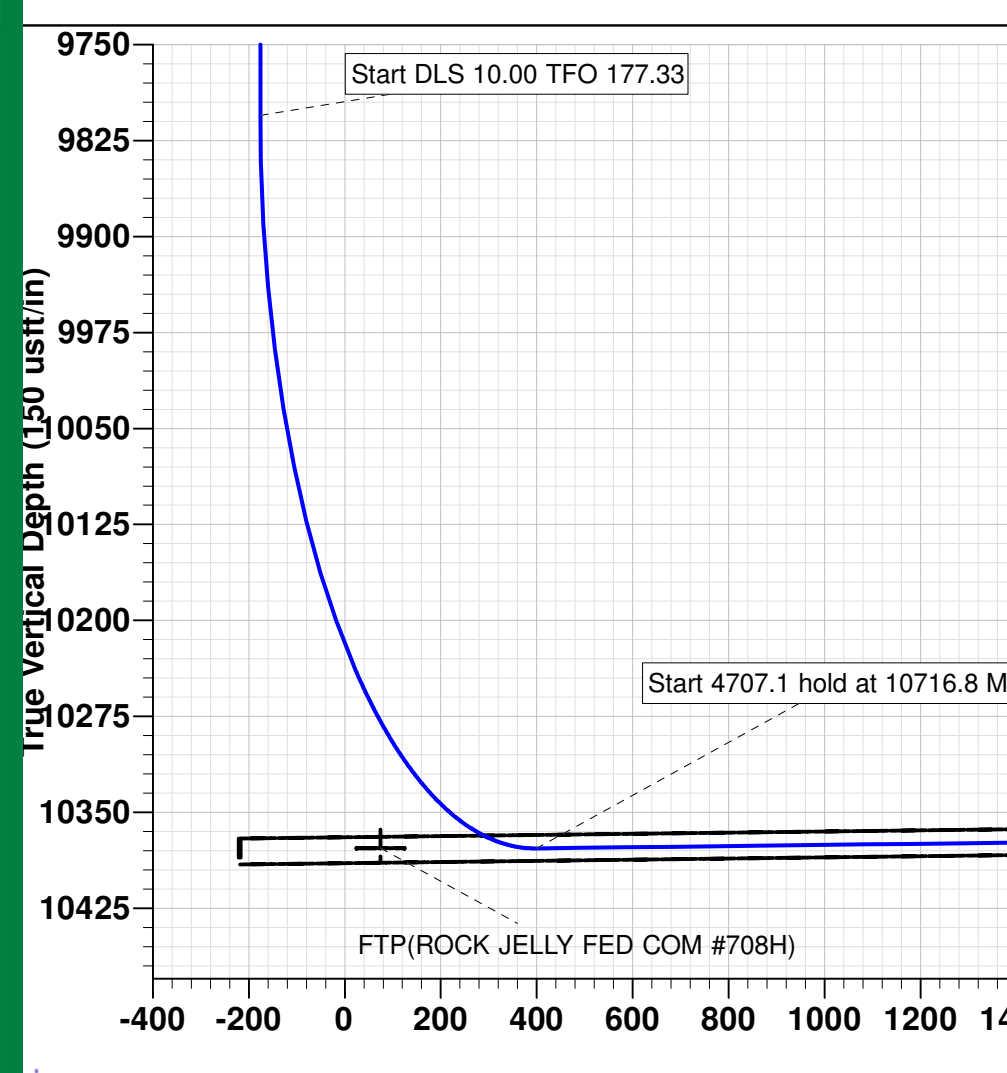


Diagram illustrating the relationship between LTP (Rock Jelly Fed COM #708H), PBHL (Rock Jelly Fed COM #708), and TD at 259. The diagram shows a horizontal line with a vertical segment labeled TD at 259. The line is labeled LTP (Rock Jelly Fed COM #708H) and PBHL (Rock Jelly Fed COM #708). A box labeled ROCK JELLY FED COM #708H/PW/P is shown below the line.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM013997
LOCATION:	Section 3, T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Rock Jelly Fed Com 708H
SURFACE HOLE FOOTAGE:	255'/N & 1055'/E
BOTTOM HOLE FOOTAGE:	200'/S & 1170'/E

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.

Operator is approved to use DV Tool. Operator shall contact BLM before proceeding with the use of DV Tool.

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

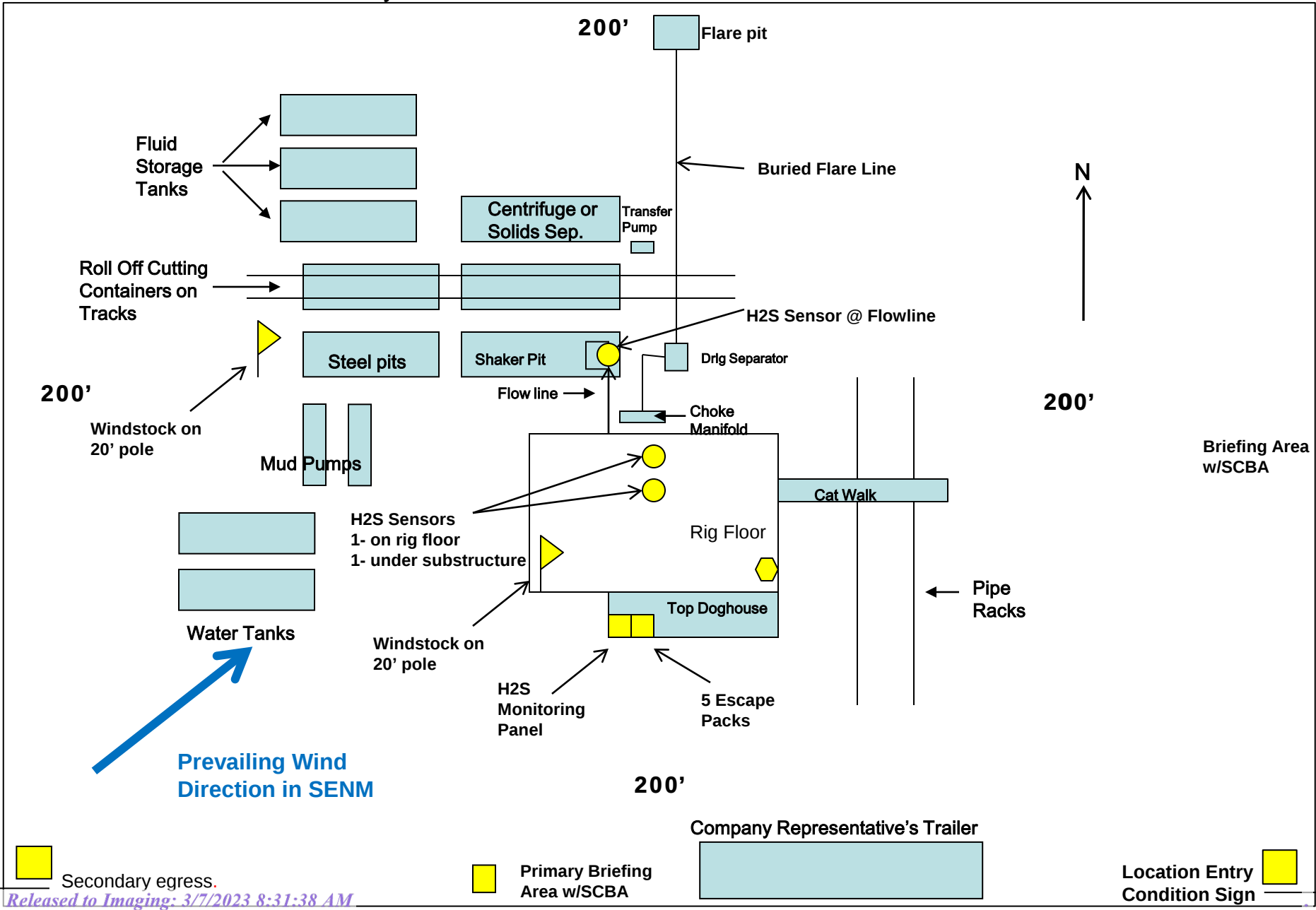
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 090722

COG Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

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



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 190752

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 190752
	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