

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
3a. Address 600 West Illinois Ave, Midland, TX 79701		9. API Well No. 709H
3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory /PURPLE SAGE (WOLFCAMP) GAS
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 1 / 255 FNL / 1085 FEL / LAT 32.07827 / LONG -103.967087 At proposed prod. zone SWSE / 200 FSL / 1590 FEL / LAT 32.035402 / LONG -103.968234		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		17. Spacing Unit dedicated to this well 1920.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 420 feet		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 02/28/2022
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)

Additional Operator Remarks

Location of Well

0. SHL: LOT 1 / 255 FNL / 1085 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.07827 / LONG: -103.967087 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 1319 FSL / 1590 FEL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.056898 / LONG: -103.968473 (TVD: 10092 feet, MD: 17642 feet)

PPP: NWNE / 1 FNL / 1590 FEL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.064256 / LONG: -103.968555 (TVD: 10103 feet, MD: 15002 feet)

PPP: NESE / 1319 FSL / 1590 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.07161 / LONG: -103.968637 (TVD: 10115 feet, MD: 12362 feet)

PPP: LOT 2 / 330 FNL / 1590 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.078063 / LONG: -103.968708 (TVD: 10051 feet, MD: 10188 feet)

BHL: SWSE / 200 FSL / 1590 FEL / TWSP: 26S / RANGE: 29E / SECTION: 15 / LAT: 32.035402 / LONG: -103.968234 (TVD: 10058 feet, MD: 25678 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- 53476	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329756	Property Name ROCK JELLY FEDERAL COM	Well Number 709H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2977.5'

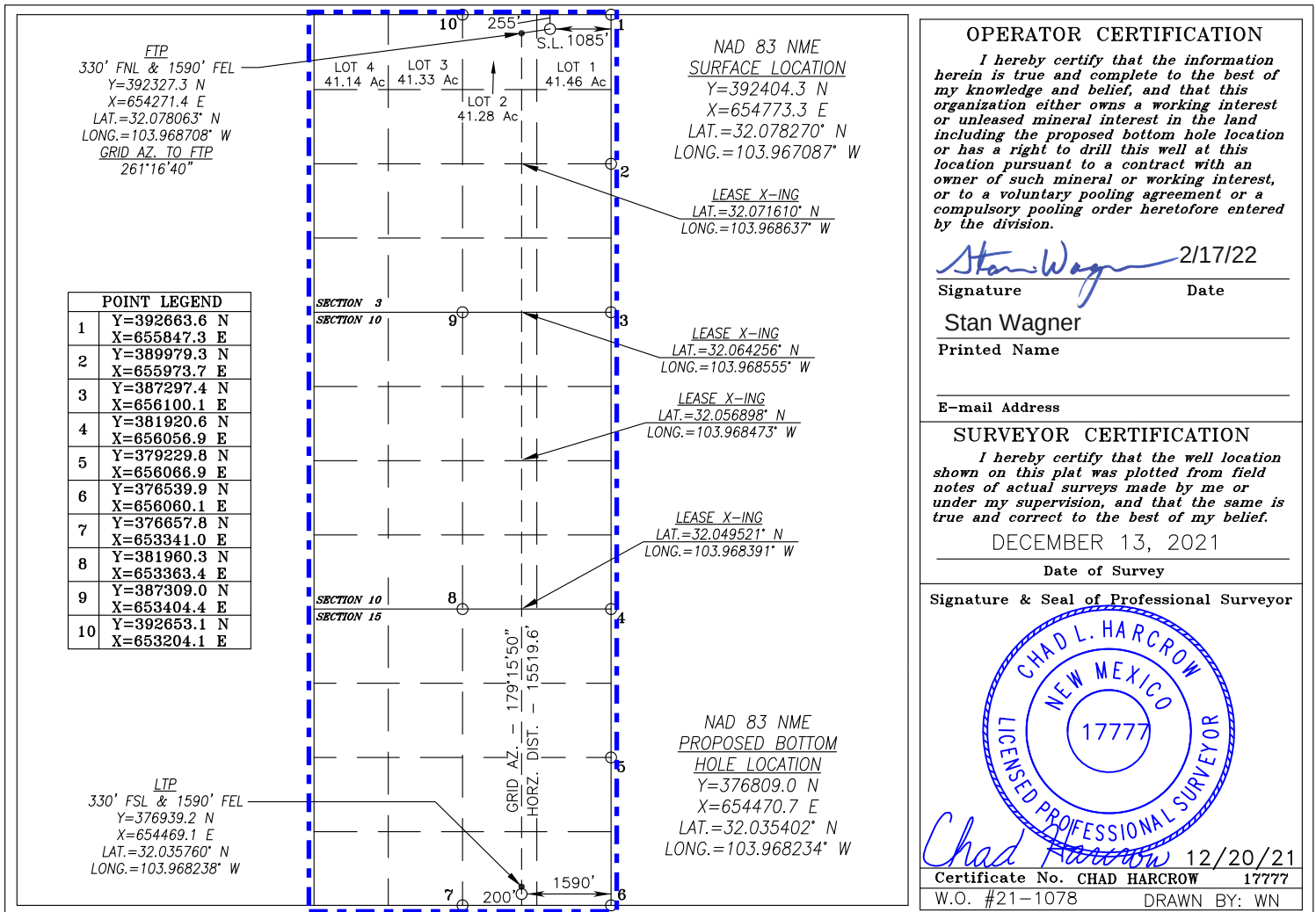
Surface Location

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	1085	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
0	15	26-S	29-E		200	SOUTH	1590	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

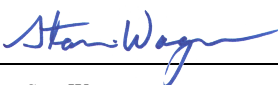
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 709H

1. Geologic Formations

TVD of target	10,123' EOL	Pilot hole depth	NA
MD at TD:	25,678'	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	7751	Oil/Gas	
2nd Bone Spring Sand	8353	Oil/Gas	
3rd Bone Spring Sand	9648	Oil/Gas	
Wolfcamp A	10013	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	1.31	3.49	3.53
8.750"	7000	9450	7.625"	29.7	P110 RY	W 513	1.66	1.75	3.35	2.01
6.75"	0	8950	5.5"	23	P110 RY	TXP BTC	2.50	2.95	3.54	3.52
6.75"	8950	25,678	5.5"	23	P110 RY	W 441	2.47	2.97	3.56	3.23
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 709H

	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 709H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	310	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	680	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	415	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1577	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	8,950'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Rock Jelly Federal Com 709H

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 709H

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 709H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6580 psi at 10123' 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 (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S 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

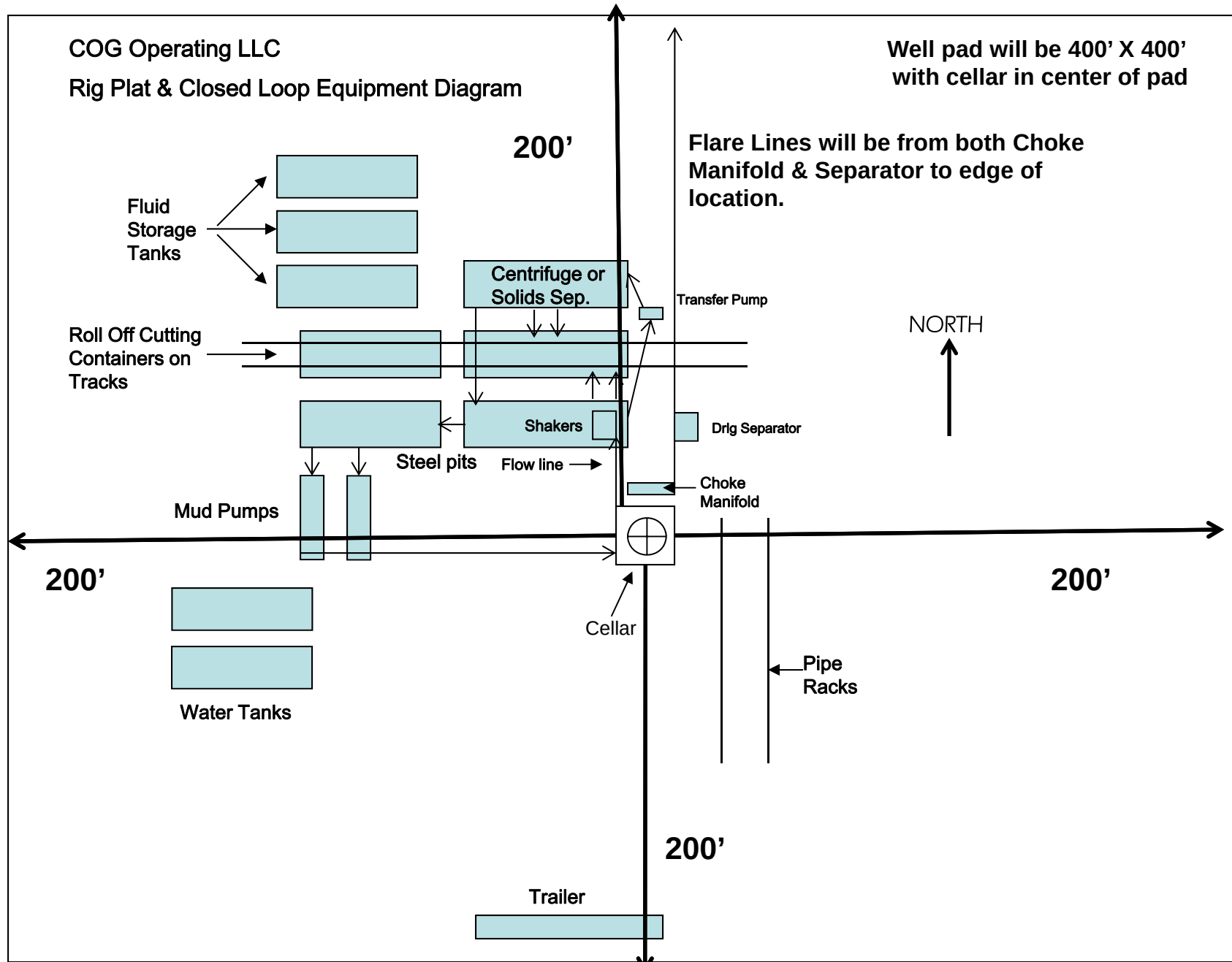


Exhibit 1

"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 #709H

OWB

PWP1

Anticollision Report

18 January, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	1/13/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,577.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,577.0	25,678.8	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	2,351.5	2,352.9	48.3	40.0	5.826	CC, ES
ROCK JELLY FED COM #701H - OWB - PWP1	25,678.8	25,952.6	486.3	219.9	1.826	Advise and Monitor, SF
ROCK JELLY FED COM #702H - OWB - PWP1	1,916.6	1,916.9	45.1	37.3	5.823	CC
ROCK JELLY FED COM #702H - OWB - PWP1	2,000.0	2,000.3	45.1	37.2	5.719	ES
ROCK JELLY FED COM #702H - OWB - PWP1	25,678.8	25,738.0	840.8	569.1	3.094	SF
ROCK JELLY FED COM #706H - OWB - PWP1	1,916.4	1,917.2	73.5	66.4	10.470	CC
ROCK JELLY FED COM #706H - OWB - PWP1	2,000.0	2,000.0	73.5	66.4	10.344	ES, SF
ROCK JELLY FED COM #707H - OWB - PWP1	2,416.5	2,417.1	60.0	53.2	8.770	CC
ROCK JELLY FED COM #707H - OWB - PWP1	2,500.0	2,500.0	60.0	53.1	8.699	ES
ROCK JELLY FED COM #707H - OWB - PWP1	25,678.8	25,687.6	839.8	567.5	3.084	SF
ROCK JELLY FED COM #708H - OWB - PWP1	2,500.3	2,500.5	30.0	23.1	4.349	CC, ES
ROCK JELLY FED COM #708H - OWB - PWP1	25,678.8	25,918.3	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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ROCK JELLY FEDERAL PROJECT (ATLAS 2629)						
ROCK JELLY FED COM #701H - OWB - PWP1	25,678.8	25,952.6	486.3	219.9	1.826	Advise and Monitor, SF
ROCK JELLY FED COM #702H - OWB - PWP1	25,678.8	25,738.0	840.8	569.1	3.094	SF
ROCK JELLY FED COM #706H - OWB - PWP1	25,678.8	25,979.3				Out of Range @TD
ROCK JELLY FED COM #707H - OWB - PWP1	25,678.8	25,687.6	839.8	567.5	3.084	SF
ROCK JELLY FED COM #708H - OWB - PWP1	25,678.8	25,918.3	488.6	222.5	1.836	Advise and Monitor, SF

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		Rule Assigned:		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	
0.0	0.0	0.5	0.5	3.0	3.0	31.65	45.1	27.8	53.0					
100.0	100.0	100.5	100.5	3.0	3.0	31.65	45.1	27.8	53.0	47.0	6.00	8.829		
200.0	200.0	200.5	200.5	3.0	3.0	31.65	45.1	27.8	53.0	47.0	6.01	8.817		
300.0	300.0	300.5	300.5	3.0	3.0	31.65	45.1	27.8	53.0	47.0	6.03	8.792		
400.0	400.0	400.5	400.5	3.0	3.0	31.65	45.1	27.8	53.0	46.9	6.05	8.753		
500.0	500.0	500.5	500.5	3.1	3.1	31.65	45.1	27.8	53.0	46.9	6.09	8.702		
600.0	600.0	600.5	600.5	3.1	3.1	31.65	45.1	27.8	53.0	46.8	6.13	8.639		
700.0	700.0	700.5	700.5	3.1	3.1	31.65	45.1	27.8	53.0	46.8	6.19	8.564		
800.0	800.0	800.5	800.5	3.2	3.2	31.65	45.1	27.8	53.0	46.7	6.25	8.480		
900.0	900.0	900.5	900.5	3.2	3.2	31.65	45.1	27.8	53.0	46.7	6.32	8.386		
1,000.0	1,000.0	1,000.5	1,000.5	3.2	3.2	31.65	45.1	27.8	53.0	46.6	6.40	8.284		
1,100.0	1,100.0	1,100.5	1,100.5	3.3	3.3	31.65	45.1	27.8	53.0	46.5	6.48	8.175		
1,200.0	1,200.0	1,200.5	1,200.5	3.4	3.4	31.65	45.1	27.8	53.0	46.4	6.57	8.059		
1,300.0	1,300.0	1,300.5	1,300.5	3.4	3.4	31.65	45.1	27.8	53.0	46.3	6.67	7.938		
1,400.0	1,400.0	1,400.5	1,400.5	3.5	3.5	31.65	45.1	27.8	53.0	46.2	6.78	7.813		
1,500.0	1,500.0	1,500.5	1,500.5	3.5	3.5	31.65	45.1	27.8	53.0	46.1	6.89	7.685		
1,600.0	1,600.0	1,600.5	1,600.5	3.6	3.6	31.65	45.1	27.8	53.0	46.0	7.01	7.554		
1,700.0	1,700.0	1,700.5	1,700.5	3.7	3.7	31.65	45.1	27.8	53.0	45.8	7.14	7.422		
1,800.0	1,800.0	1,800.5	1,800.5	3.8	3.8	31.65	45.1	27.8	53.0	45.7	7.27	7.289		
1,900.0	1,900.0	1,900.5	1,900.5	3.9	3.9	31.65	45.1	27.8	53.0	45.6	7.40	7.155		
2,000.0	2,000.0	2,000.5	2,000.5	3.9	3.9	31.65	45.1	27.8	53.0	45.4	7.55	7.021		
2,100.0	2,100.0	2,101.2	2,101.2	4.0	4.0	29.86	45.3	26.0	52.3	44.6	7.69	6.796		
2,200.0	2,200.0	2,201.7	2,201.5	4.1	4.0	24.28	46.0	20.8	50.5	42.6	7.89	6.402		
2,300.0	2,300.0	2,301.7	2,301.1	4.2	4.1	14.35	47.2	12.1	48.7	40.5	8.15	5.970		
2,351.5	2,351.5	2,352.9	2,352.0	4.3	4.1	7.46	47.9	6.3	48.3	40.0	8.29	5.826	CC, ES	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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
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)		
2,400.0	2,400.0	2,400.9	2,399.6	4.3	4.1	0.03	48.7	48.7	0.0	48.7	40.3	8.40	5.801	
2,500.0	2,500.0	2,499.2	2,496.7	4.4	4.2	-16.70	50.7	50.7	-15.2	53.1	44.6	8.48	6.265	
2,600.0	2,600.0	2,598.0	2,593.9	4.5	4.2	40.95	53.0	53.0	-32.2	61.0	52.6	8.40	7.267	
2,700.0	2,699.8	2,697.2	2,691.7	4.5	4.3	32.25	55.2	55.2	-49.3	68.6	60.2	8.34	8.219	
2,800.0	2,799.5	2,796.8	2,789.7	4.6	4.3	26.54	57.4	57.4	-66.5	74.3	65.9	8.35	8.892	
2,900.0	2,898.9	2,896.5	2,887.9	4.6	4.4	22.20	59.7	59.7	-83.6	78.9	70.5	8.39	9.409	
3,000.0	2,998.4	2,996.2	2,986.1	4.7	4.5	18.36	61.9	61.9	-100.8	84.0	75.6	8.44	9.954	
3,100.0	3,097.8	3,095.9	3,084.4	4.8	4.5	14.97	64.2	64.2	-118.0	89.4	80.9	8.50	10.516	
3,200.0	3,197.3	3,195.7	3,182.6	4.8	4.6	11.97	66.4	66.4	-135.1	95.1	86.5	8.58	11.086	
3,300.0	3,296.7	3,295.4	3,280.8	4.9	4.7	9.32	68.7	68.7	-152.3	101.0	92.3	8.66	11.658	
3,400.0	3,396.2	3,395.1	3,379.0	5.0	4.8	6.96	70.9	70.9	-169.5	107.1	98.4	8.76	12.227	
3,500.0	3,495.6	3,494.8	3,477.2	5.0	4.8	4.86	73.2	73.2	-186.6	113.4	104.5	8.87	12.789	
3,600.0	3,595.1	3,594.6	3,575.4	5.1	4.9	2.98	75.4	75.4	-203.8	119.8	110.8	8.98	13.340	
3,700.0	3,694.5	3,694.3	3,673.6	5.2	5.0	1.30	77.7	77.7	-221.0	126.3	117.2	9.10	13.879	
3,800.0	3,794.0	3,794.0	3,771.8	5.3	5.1	-0.22	79.9	79.9	-238.2	132.9	123.7	9.23	14.404	
3,900.0	3,893.4	3,893.7	3,870.0	5.4	5.2	-1.59	82.2	82.2	-255.3	139.6	130.3	9.36	14.913	
4,000.0	3,992.9	3,993.4	3,968.2	5.4	5.3	-2.84	84.4	84.4	-272.5	146.4	136.9	9.50	15.406	
4,100.0	4,092.3	4,093.2	4,066.4	5.5	5.4	-3.98	86.7	86.7	-289.7	153.3	143.6	9.65	15.883	
4,200.0	4,191.8	4,192.9	4,164.6	5.6	5.5	-5.02	88.9	88.9	-306.8	160.1	150.3	9.80	16.342	
4,300.0	4,291.2	4,292.6	4,262.8	5.7	5.6	-5.97	91.2	91.2	-324.0	167.1	157.1	9.95	16.785	
4,400.0	4,390.7	4,392.3	4,361.0	5.8	5.7	-6.85	93.4	93.4	-341.2	174.1	164.0	10.11	17.211	
4,500.0	4,490.1	4,492.0	4,459.2	5.9	5.8	-7.66	95.7	95.7	-358.3	181.1	170.8	10.28	17.621	
4,600.0	4,589.6	4,591.8	4,557.5	6.0	5.9	-8.41	97.9	97.9	-375.5	188.1	177.7	10.44	18.014	
4,700.0	4,689.0	4,691.5	4,655.7	6.1	6.0	-9.10	100.2	100.2	-392.7	195.2	184.6	10.62	18.391	
4,800.0	4,788.5	4,791.2	4,753.9	6.2	6.1	-9.75	102.4	102.4	-409.8	202.3	191.6	10.79	18.753	
4,900.0	4,887.9	4,890.9	4,852.1	6.3	6.3	-10.35	104.7	104.7	-427.0	209.5	198.5	10.97	19.100	
5,000.0	4,987.4	4,990.7	4,950.3	6.4	6.4	-10.91	106.9	106.9	-444.2	216.6	205.5	11.15	19.433	
5,100.0	5,086.9	5,090.4	5,048.5	6.5	6.5	-11.44	109.2	109.2	-461.4	223.8	212.5	11.33	19.752	
5,200.0	5,186.3	5,190.1	5,146.7	6.6	6.6	-11.93	111.4	111.4	-478.5	231.0	219.5	11.52	20.057	
5,300.0	5,285.8	5,289.8	5,244.9	6.7	6.7	-12.39	113.7	113.7	-495.7	238.2	226.5	11.71	20.349	
5,400.0	5,385.2	5,389.5	5,343.1	6.8	6.8	-12.83	115.9	115.9	-512.9	245.4	233.5	11.90	20.629	
5,500.0	5,484.7	5,489.3	5,441.3	6.9	7.0	-13.24	118.2	118.2	-530.0	252.7	240.6	12.09	20.897	
5,600.0	5,584.1	5,589.0	5,539.5	7.0	7.1	-13.63	120.4	120.4	-547.2	259.9	247.6	12.29	21.154	
5,700.0	5,683.6	5,688.7	5,637.7	7.1	7.2	-14.00	122.7	122.7	-564.4	267.2	254.7	12.49	21.399	
5,800.0	5,783.0	5,788.4	5,735.9	7.2	7.3	-14.35	124.9	124.9	-581.5	274.5	261.8	12.69	21.635	
5,900.0	5,882.5	5,888.2	5,834.1	7.3	7.5	-14.68	127.2	127.2	-598.7	281.7	268.8	12.89	21.860	
6,000.0	5,981.9	5,987.9	5,932.4	7.4	7.6	-14.99	129.4	129.4	-615.9	289.0	275.9	13.09	22.076	
6,100.0	6,081.4	6,087.6	6,030.6	7.6	7.7	-15.29	131.7	131.7	-633.1	296.3	283.0	13.30	22.282	
6,200.0	6,180.8	6,187.3	6,128.8	7.7	7.9	-15.57	133.9	133.9	-650.2	303.6	290.1	13.51	22.480	
6,300.0	6,280.3	6,287.0	6,227.0	7.8	8.0	-15.84	136.2	136.2	-667.4	310.9	297.2	13.72	22.670	
6,400.0	6,379.7	6,386.8	6,325.2	7.9	8.1	-16.10	138.4	138.4	-684.6	318.3	304.3	13.93	22.852	
6,500.0	6,479.2	6,486.5	6,423.4	8.0	8.3	-16.35	140.7	140.7	-701.7	325.6	311.4	14.14	23.026	
6,600.0	6,578.6	6,586.2	6,521.6	8.1	8.4	-16.58	142.9	142.9	-718.9	332.9	318.6	14.35	23.193	
6,700.0	6,678.1	6,685.9	6,619.8	8.2	8.6	-16.81	145.2	145.2	-736.1	340.3	325.7	14.57	23.353	
6,800.0	6,777.5	6,785.6	6,718.0	8.3	8.7	-17.02	147.4	147.4	-753.2	347.6	332.8	14.79	23.506	
6,900.0	6,877.0	6,885.4	6,816.2	8.5	8.9	-17.23	149.6	149.6	-770.4	354.9	339.9	15.01	23.654	
7,000.0	6,976.4	6,985.1	6,914.4	8.6	9.0	-17.43	151.9	151.9	-787.6	362.3	347.1	15.23	23.795	
7,100.0	7,075.9	7,084.8	7,012.6	8.7	9.2	-17.62	154.1	154.1	-804.8	369.6	354.2	15.45	23.930	
7,200.0	7,175.3	7,184.5	7,110.8	8.8	9.3	-17.80	156.4	156.4	-821.9	377.0	361.3	15.67	24.060	
7,300.0	7,274.8	7,284.3	7,209.0	8.9	9.5	-17.98	158.6	158.6	-839.1	384.4	368.5	15.89	24.185	
7,400.0	7,374.3	7,387.5	7,310.8	9.0	9.6	-18.16	160.9	160.9	-856.6	391.5	375.4	16.11	24.298	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 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)	Between Ellipses (usft)			
7,500.0	7,473.7	7,494.7	7,416.6	9.2	9.8	-18.37	163.1	-873.2	397.1	380.7	16.33	24.312	
7,519.8	7,493.4	7,515.9	7,437.7	9.2	9.8	-18.41	163.5	-876.2	397.9	381.6	16.38	24.301	
7,600.0	7,573.2	7,602.0	7,522.9	9.3	9.9	-18.59	165.0	-887.7	401.3	384.7	16.56	24.239	
7,700.0	7,672.9	7,709.4	7,629.6	9.4	10.1	-18.77	166.7	-900.3	405.3	388.5	16.79	24.142	
7,800.0	7,772.7	7,816.9	7,736.5	9.5	10.2	-18.90	168.1	-911.0	409.1	392.0	17.03	24.023	
7,900.0	7,872.6	7,924.5	7,843.8	9.6	10.3	-18.97	169.2	-919.6	412.6	395.4	17.28	23.885	
8,000.0	7,972.5	8,032.1	7,951.2	9.7	10.4	-19.00	170.1	-926.2	416.0	398.5	17.53	23.728	
8,100.0	8,072.5	8,139.9	8,058.8	9.8	10.5	-18.99	170.7	-930.9	419.2	401.4	17.80	23.550	
8,119.8	8,092.3	8,161.2	8,080.2	9.9	10.5	-90.31	170.8	-931.6	419.8	401.9	17.85	23.522	
8,200.0	8,172.5	8,247.7	8,166.6	9.9	10.6	-90.27	171.0	-933.5	421.6	403.6	18.01	23.405	
8,300.0	8,272.5	8,354.1	8,273.0	10.0	10.7	-90.26	171.1	-934.2	422.2	404.0	18.19	23.212	
8,400.0	8,372.5	8,454.1	8,373.0	10.1	10.8	-90.26	171.1	-934.2	422.2	403.9	18.28	23.101	
8,500.0	8,472.5	8,554.1	8,473.0	10.2	10.8	-90.26	171.1	-934.2	422.2	403.8	18.36	22.990	
8,600.0	8,572.5	8,654.1	8,573.0	10.3	10.9	-90.26	171.1	-934.2	422.2	403.8	18.45	22.880	
8,700.0	8,672.5	8,754.1	8,673.0	10.5	11.0	-90.26	171.1	-934.2	422.2	403.7	18.54	22.770	
8,800.0	8,772.5	8,854.1	8,773.0	10.6	11.1	-90.26	171.1	-934.2	422.2	403.6	18.63	22.660	
8,900.0	8,872.5	8,954.1	8,873.0	10.7	11.2	-90.26	171.1	-934.2	422.2	403.5	18.72	22.551	
9,000.0	8,972.5	9,054.1	8,973.0	10.8	11.3	-90.26	171.1	-934.2	422.2	403.4	18.81	22.442	
9,100.0	9,072.5	9,154.1	9,073.0	10.9	11.4	-90.26	171.1	-934.2	422.2	403.3	18.91	22.333	
9,200.0	9,172.5	9,254.1	9,173.0	11.0	11.5	-90.26	171.1	-934.2	422.2	403.2	19.00	22.224	
9,300.0	9,272.5	9,354.1	9,273.0	11.1	11.6	-90.26	171.1	-934.2	422.2	403.1	19.09	22.116	
9,400.0	9,372.5	9,454.1	9,373.0	11.2	11.7	-90.26	171.1	-934.2	422.2	403.0	19.18	22.009	
9,500.0	9,472.5	9,554.1	9,473.0	11.3	11.8	-90.26	171.1	-934.2	422.2	402.9	19.28	21.902	
9,577.5	9,550.0	9,631.6	9,550.5	11.3	11.9	-90.26	171.1	-934.2	422.2	402.9	19.34	21.836	
9,600.0	9,572.5	9,654.1	9,573.0	11.3	11.9	92.48	171.1	-934.2	422.2	402.9	19.35	21.816	
9,650.0	9,622.3	9,703.9	9,622.8	11.3	11.9	93.02	171.1	-934.2	422.4	403.0	19.44	21.731	
9,700.0	9,671.6	9,753.1	9,672.1	11.4	12.0	94.09	171.1	-934.2	423.0	403.4	19.59	21.595	
9,750.0	9,719.9	9,801.5	9,720.4	11.4	12.0	95.64	171.1	-934.2	424.1	404.3	19.79	21.424	
9,800.0	9,766.9	9,848.5	9,767.4	11.4	12.0	97.56	171.1	-934.2	426.1	406.1	20.06	21.247	
9,850.0	9,812.3	9,897.7	9,816.6	11.4	12.1	99.89	170.5	-934.2	429.5	409.2	20.35	21.105	
9,900.0	9,855.7	9,951.9	9,870.5	11.5	12.1	102.39	165.4	-933.9	433.9	413.2	20.63	21.032	
9,950.0	9,896.8	10,008.7	9,926.3	11.5	12.1	104.83	154.7	-933.4	439.0	418.1	20.92	20.988	
10,000.0	9,935.2	10,068.5	9,983.5	11.6	12.1	107.20	137.5	-932.6	444.9	423.6	21.25	20.937	
10,050.0	9,970.7	10,131.4	10,041.5	11.6	12.1	109.47	113.0	-931.5	451.1	429.5	21.65	20.837	
10,100.0	10,003.0	10,197.9	10,099.4	11.7	12.2	111.62	80.5	-929.9	457.6	435.4	22.16	20.653	
10,150.0	10,031.9	10,268.0	10,156.0	11.8	12.3	113.61	39.1	-928.0	464.0	441.2	22.79	20.364	
10,200.0	10,057.1	10,341.9	10,209.6	11.8	12.3	115.40	-11.5	-925.6	470.0	446.5	23.53	19.975	
10,250.0	10,078.4	10,419.3	10,258.3	11.9	12.4	116.94	-71.5	-922.8	475.4	451.1	24.36	19.515	
10,300.0	10,095.7	10,500.0	10,300.0	12.0	12.5	118.18	-140.5	-919.5	479.9	454.6	25.21	19.035	
10,350.0	10,108.8	10,583.4	10,332.5	12.1	12.6	119.06	-217.1	-915.9	483.1	457.1	26.00	18.583	
10,400.0	10,117.7	10,668.7	10,353.8	12.1	12.7	119.56	-299.5	-912.0	484.9	458.3	26.63	18.208	
10,450.0	10,122.3	10,754.7	10,362.7	12.2	12.8	119.65	-384.8	-908.0	485.2	458.1	27.04	17.942	
10,479.9	10,123.0	10,792.4	10,362.9	12.3	12.9	119.59	-422.6	-906.2	484.9	457.7	27.20	17.825	
10,500.0	10,122.9	10,812.5	10,362.8	12.3	12.9	119.59	-442.6	-905.3	484.9	457.5	27.33	17.743	
10,600.0	10,122.4	10,912.5	10,362.4	12.5	13.1	119.60	-542.5	-900.6	484.8	456.8	28.01	17.312	
10,700.0	10,122.0	11,012.5	10,362.0	12.8	13.3	119.60	-642.4	-895.9	484.8	456.1	28.77	16.853	
10,800.0	10,121.6	11,112.5	10,361.6	13.1	13.6	119.61	-742.3	-891.2	484.8	455.2	29.61	16.374	
10,900.0	10,121.2	11,212.5	10,361.2	13.5	14.1	119.61	-842.1	-886.5	484.8	454.3	30.52	15.885	
11,000.0	10,120.7	11,312.5	10,360.8	14.0	14.5	119.62	-942.0	-881.8	484.8	453.3	31.49	15.393	
11,100.0	10,120.3	11,412.5	10,360.4	14.5	15.1	119.62	-1,041.9	-877.1	484.8	452.2	32.53	14.903	
11,200.0	10,119.9	11,512.5	10,360.0	15.1	15.7	119.63	-1,141.8	-872.4	484.8	451.1	33.62	14.421	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major 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)						
11,300.0	10,119.5	11,612.5	10,359.6	15.8	16.3	119.63	-1,241.7	-867.7	484.7	450.0	34.75	13.949		
11,400.0	10,119.0	11,712.5	10,359.2	16.4	16.9	119.64	-1,341.6	-863.0	484.7	448.8	35.93	13.491		
11,500.0	10,118.6	11,812.5	10,358.9	17.1	17.6	119.64	-1,441.5	-858.3	484.7	447.6	37.15	13.048		
11,600.0	10,118.2	11,912.5	10,358.5	17.8	18.3	119.65	-1,541.4	-853.5	484.7	446.3	38.40	12.621		
11,700.0	10,117.8	12,012.5	10,358.1	18.5	19.0	119.66	-1,641.2	-848.8	484.7	445.0	39.69	12.212		
11,800.0	10,117.3	12,112.5	10,357.7	19.2	19.7	119.66	-1,741.1	-844.1	484.7	443.7	41.01	11.819		
11,900.0	10,116.9	12,212.5	10,357.3	20.0	20.5	119.67	-1,841.0	-839.4	484.7	442.3	42.35	11.444		
12,000.0	10,116.5	12,312.5	10,356.9	20.7	21.2	119.67	-1,940.9	-834.7	484.6	440.9	43.72	11.086		
12,100.0	10,116.0	12,412.5	10,356.5	21.5	22.0	119.68	-2,040.8	-830.0	484.6	439.5	45.11	10.744		
12,200.0	10,115.6	12,512.5	10,356.1	22.3	22.7	119.68	-2,140.7	-825.3	484.6	438.1	46.52	10.418		
12,300.0	10,115.2	12,612.5	10,355.7	23.0	23.5	119.69	-2,240.6	-820.6	484.6	436.7	47.94	10.108		
12,400.0	10,114.8	12,712.5	10,355.3	23.8	24.3	119.69	-2,340.5	-815.9	484.6	435.2	49.39	9.812		
12,500.0	10,114.3	12,812.5	10,354.9	24.6	25.1	119.70	-2,440.4	-811.2	484.6	433.7	50.85	9.530		
12,600.0	10,113.9	12,912.5	10,354.5	25.4	25.9	119.70	-2,540.2	-806.5	484.6	432.2	52.32	9.261		
12,700.0	10,113.5	13,012.5	10,354.1	26.2	26.7	119.71	-2,640.1	-801.8	484.5	430.7	53.81	9.005		
12,800.0	10,113.1	13,112.5	10,353.7	27.0	27.4	119.71	-2,740.0	-797.1	484.5	429.2	55.30	8.761		
12,900.0	10,112.6	13,212.5	10,353.3	27.8	28.3	119.72	-2,839.9	-792.4	484.5	427.7	56.81	8.528		
13,000.0	10,112.2	13,312.5	10,352.9	28.6	29.1	119.72	-2,939.8	-787.7	484.5	426.2	58.33	8.306		
13,100.0	10,111.8	13,412.5	10,352.5	29.4	29.9	119.73	-3,039.7	-783.0	484.5	424.6	59.86	8.094		
13,200.0	10,111.4	13,512.5	10,352.1	30.3	30.7	119.73	-3,139.6	-778.3	484.5	423.1	61.39	7.891		
13,300.0	10,110.9	13,612.5	10,351.7	31.1	31.5	119.74	-3,239.5	-773.6	484.5	421.5	62.94	7.697		
13,400.0	10,110.5	13,712.5	10,351.4	31.9	32.3	119.74	-3,339.4	-768.9	484.4	420.0	64.49	7.512		
13,500.0	10,110.1	13,812.5	10,351.0	32.7	33.1	119.75	-3,439.2	-764.2	484.4	418.4	66.05	7.334		
13,600.0	10,109.7	13,912.5	10,350.6	33.6	33.9	119.76	-3,539.1	-759.5	484.4	416.8	67.61	7.164		
13,700.0	10,109.2	14,012.5	10,350.2	34.4	34.8	119.76	-3,639.0	-754.8	484.4	415.2	69.18	7.002		
13,800.0	10,108.8	14,112.5	10,349.8	35.2	35.6	119.77	-3,738.9	-750.1	484.4	413.6	70.76	6.845		
13,900.0	10,108.4	14,212.5	10,349.4	36.0	36.4	119.77	-3,838.8	-745.3	484.4	412.0	72.34	6.696		
14,000.0	10,107.9	14,312.5	10,349.0	36.9	37.3	119.78	-3,938.7	-740.6	484.4	410.4	73.93	6.552		
14,100.0	10,107.5	14,412.5	10,348.6	37.7	38.1	119.78	-4,038.6	-735.9	484.3	408.8	75.52	6.414		
14,200.0	10,107.1	14,512.5	10,348.2	38.6	38.9	119.79	-4,138.5	-731.2	484.3	407.2	77.11	6.281		
14,300.0	10,106.7	14,612.5	10,347.8	39.4	39.8	119.79	-4,238.3	-726.5	484.3	405.6	78.71	6.153		
14,400.0	10,106.2	14,712.5	10,347.4	40.2	40.6	119.80	-4,338.2	-721.8	484.3	404.0	80.31	6.030		
14,500.0	10,105.8	14,812.5	10,347.0	41.1	41.4	119.80	-4,438.1	-717.1	484.3	402.4	81.92	5.912		
14,600.0	10,105.4	14,912.5	10,346.6	41.9	42.3	119.81	-4,538.0	-712.4	484.3	400.7	83.53	5.798		
14,700.0	10,105.0	15,012.5	10,346.2	42.7	43.1	119.81	-4,637.9	-707.7	484.3	399.1	85.14	5.688		
14,800.0	10,104.5	15,112.5	10,345.8	43.6	43.9	119.82	-4,737.8	-703.0	484.2	397.5	86.76	5.582		
14,900.0	10,104.1	15,212.5	10,345.4	44.4	44.8	119.82	-4,837.7	-698.3	484.2	395.9	88.38	5.479		
15,000.0	10,103.7	15,312.5	10,345.0	45.3	45.6	119.83	-4,937.6	-693.6	484.2	394.2	90.00	5.380		
15,100.0	10,103.3	15,412.5	10,344.6	46.1	46.5	119.83	-5,037.5	-688.9	484.2	392.6	91.62	5.285		
15,160.9	10,103.0	15,473.3	10,344.4	46.6	47.0	119.84	-5,098.2	-686.0	484.2	391.6	92.61	5.228		
15,183.4	10,102.9	15,492.9	10,344.3	46.8	47.1	119.83	-5,117.8	-685.2	484.3	391.3	92.94	5.210		
15,200.0	10,102.8	15,507.5	10,344.3	47.0	47.3	119.83	-5,132.4	-684.6	484.3	391.2	93.18	5.198		
15,300.0	10,102.4	15,600.0	10,343.9	47.8	48.0	119.82	-5,224.9	-682.9	484.7	390.0	94.70	5.118		
15,305.5	10,102.4	15,600.0	10,343.9	47.9	48.0	119.82	-5,224.9	-682.9	484.7	390.0	94.70	5.118		
15,341.6	10,102.2	15,632.3	10,343.8	48.2	48.3	119.82	-5,257.1	-683.0	484.7	389.5	95.21	5.091		
15,343.2	10,102.2	15,632.3	10,343.8	48.2	48.3	119.82	-5,257.2	-683.0	484.7	389.5	95.21	5.091		
15,400.0	10,102.0	15,689.2	10,343.5	48.7	48.8	119.83	-5,314.0	-683.4	484.7	388.6	96.13	5.042		
15,500.0	10,101.5	15,789.2	10,343.1	49.5	49.6	119.83	-5,414.0	-684.3	484.7	386.9	97.75	4.958		
15,600.0	10,101.1	15,889.2	10,342.7	50.3	50.5	119.83	-5,514.0	-685.1	484.7	385.3	99.38	4.877		
15,700.0	10,100.7	15,989.2	10,342.3	51.2	51.3	119.84	-5,614.0	-686.0	484.7	383.7	101.01	4.799		
15,800.0	10,100.3	16,089.2	10,341.9	52.0	52.1	119.84	-5,714.0	-686.8	484.7	382.1	102.64	4.723		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,900.0	10,099.8	16,189.2	10,341.5	52.9	53.0	119.84	-5,814.0	-687.7	484.7	380.5	104.27	4.649	
16,000.0	10,099.4	16,289.2	10,341.1	53.7	53.8	119.85	-5,914.0	-688.5	484.7	378.8	105.90	4.577	
16,100.0	10,099.0	16,389.2	10,340.7	54.5	54.7	119.85	-6,014.0	-689.3	484.7	377.2	107.54	4.508	
16,200.0	10,098.6	16,489.2	10,340.3	55.4	55.5	119.85	-6,114.0	-690.2	484.7	375.6	109.17	4.440	
16,300.0	10,098.1	16,589.2	10,339.9	56.2	56.3	119.86	-6,214.0	-691.0	484.7	373.9	110.81	4.375	
16,400.0	10,097.7	16,689.2	10,339.5	57.1	57.2	119.86	-6,314.0	-691.9	484.8	372.3	112.45	4.311	
16,500.0	10,097.3	16,789.2	10,339.1	57.9	58.0	119.86	-6,414.0	-692.7	484.8	370.7	114.09	4.249	
16,600.0	10,096.8	16,889.2	10,338.7	58.8	58.9	119.87	-6,514.0	-693.6	484.8	369.0	115.73	4.189	
16,700.0	10,096.4	16,989.2	10,338.3	59.6	59.7	119.87	-6,614.0	-694.4	484.8	367.4	117.37	4.130	
16,800.0	10,096.0	17,089.2	10,337.9	60.5	60.6	119.87	-6,714.0	-695.3	484.8	365.8	119.01	4.073	
16,900.0	10,095.6	17,189.2	10,337.5	61.3	61.4	119.88	-6,814.0	-696.1	484.8	364.1	120.66	4.018	
17,000.0	10,095.1	17,289.2	10,337.1	62.1	62.2	119.88	-6,914.0	-696.9	484.8	362.5	122.30	3.964	
17,100.0	10,094.7	17,389.2	10,336.7	63.0	63.1	119.88	-7,013.9	-697.8	484.8	360.8	123.95	3.911	
17,200.0	10,094.3	17,489.2	10,336.3	63.8	63.9	119.89	-7,113.9	-698.6	484.8	359.2	125.59	3.860	
17,300.0	10,093.9	17,589.2	10,335.9	64.7	64.8	119.89	-7,213.9	-699.5	484.8	357.6	127.24	3.810	
17,400.0	10,093.4	17,689.2	10,335.5	65.5	65.6	119.89	-7,313.9	-700.3	484.8	355.9	128.89	3.761	
17,500.0	10,093.0	17,789.2	10,335.1	66.4	66.5	119.90	-7,413.9	-701.2	484.8	354.3	130.54	3.714	
17,600.0	10,092.6	17,889.2	10,334.7	67.2	67.3	119.90	-7,513.9	-702.0	484.8	352.6	132.19	3.668	
17,700.0	10,092.1	17,989.2	10,334.3	68.1	68.2	119.90	-7,613.9	-702.8	484.8	351.0	133.84	3.622	
17,800.0	10,091.7	18,089.2	10,333.9	68.9	69.0	119.91	-7,713.9	-703.7	484.8	349.3	135.49	3.578	
17,900.0	10,091.3	18,189.2	10,333.6	69.8	69.9	119.91	-7,813.9	-704.5	484.8	347.7	137.15	3.535	
18,000.0	10,090.9	18,289.2	10,333.2	70.6	70.7	119.91	-7,913.9	-705.4	484.8	346.1	138.80	3.493	
18,100.0	10,090.4	18,389.2	10,332.8	71.5	71.6	119.92	-8,013.9	-706.2	484.9	344.4	140.45	3.452	
18,200.0	10,090.0	18,489.2	10,332.4	72.3	72.4	119.92	-8,113.9	-707.1	484.9	342.8	142.11	3.412	
18,300.0	10,089.6	18,589.2	10,332.0	73.2	73.3	119.92	-8,213.9	-707.9	484.9	341.1	143.76	3.373	
18,400.0	10,089.2	18,689.2	10,331.6	74.0	74.1	119.93	-8,313.9	-708.7	484.9	339.5	145.42	3.334	
18,500.0	10,088.7	18,789.2	10,331.2	74.9	75.0	119.93	-8,413.9	-709.6	484.9	337.8	147.07	3.297	
18,600.0	10,088.3	18,889.2	10,330.8	75.7	75.8	119.93	-8,513.9	-710.4	484.9	336.2	148.73	3.260	
18,700.0	10,087.9	18,989.2	10,330.4	76.6	76.6	119.94	-8,613.9	-711.3	484.9	334.5	150.39	3.224	
18,800.0	10,087.4	19,089.2	10,330.0	77.4	77.5	119.94	-8,713.9	-712.1	484.9	332.9	152.04	3.189	
18,900.0	10,087.0	19,189.2	10,329.6	78.3	78.3	119.94	-8,813.9	-713.0	484.9	331.2	153.70	3.155	
19,000.0	10,086.6	19,289.2	10,329.2	79.1	79.2	119.95	-8,913.9	-713.8	484.9	329.5	155.36	3.121	
19,100.0	10,086.2	19,389.2	10,328.8	80.0	80.0	119.95	-9,013.9	-714.6	484.9	327.9	157.02	3.088	
19,200.0	10,085.7	19,489.2	10,328.4	80.8	80.9	119.95	-9,113.9	-715.5	484.9	326.2	158.68	3.056	
19,300.0	10,085.3	19,589.2	10,328.0	81.7	81.7	119.96	-9,213.9	-716.3	484.9	324.6	160.34	3.024	
19,400.0	10,084.9	19,689.2	10,327.6	82.5	82.6	119.96	-9,313.8	-717.2	484.9	322.9	162.00	2.993	
19,500.0	10,084.5	19,789.2	10,327.2	83.4	83.4	119.96	-9,413.8	-718.0	484.9	321.3	163.66	2.963	
19,600.0	10,084.0	19,889.2	10,326.8	84.2	84.3	119.97	-9,513.8	-718.9	484.9	319.6	165.32	2.933	
19,700.0	10,083.6	19,989.2	10,326.4	85.1	85.2	119.97	-9,613.8	-719.7	485.0	318.0	166.98	2.904	
19,800.0	10,083.2	20,089.2	10,326.0	85.9	86.0	119.97	-9,713.8	-720.5	485.0	316.3	168.65	2.876	
19,900.0	10,082.7	20,189.2	10,325.6	86.8	86.9	119.98	-9,813.8	-721.4	485.0	314.7	170.31	2.848	
20,000.0	10,082.3	20,289.2	10,325.2	87.6	87.7	119.98	-9,913.8	-722.2	485.0	313.0	171.97	2.820	
20,100.0	10,081.9	20,389.2	10,324.8	88.5	88.6	119.98	-10,013.8	-723.1	485.0	311.3	173.63	2.793	
20,200.0	10,081.5	20,489.2	10,324.4	89.4	89.4	119.99	-10,113.8	-723.9	485.0	309.7	175.30	2.767	
20,300.0	10,081.0	20,589.2	10,324.0	90.2	90.3	119.99	-10,213.8	-724.8	485.0	308.0	176.96	2.741	
20,400.0	10,080.6	20,689.2	10,323.6	91.1	91.1	119.99	-10,313.8	-725.6	485.0	306.4	178.63	2.715	
20,500.0	10,080.2	20,789.2	10,323.2	91.9	92.0	120.00	-10,413.8	-726.4	485.0	304.7	180.29	2.690	
20,543.7	10,080.0	20,833.5	10,323.0	92.3	92.3	120.00	-10,458.1	-726.8	485.0	304.0	181.03	2.679	
20,569.7	10,079.9	20,862.7	10,322.9	92.5	92.6	120.00	-10,487.3	-726.9	485.0	303.4	181.52	2.672	
20,570.3	10,079.9	20,863.3	10,322.9	92.5	92.6	120.00	-10,487.9	-726.9	485.0	303.4	181.53	2.671	
20,600.0	10,079.8	20,893.0	10,322.7	92.8	92.8	120.00	-10,517.6	-726.9	485.0	302.9	182.03	2.664	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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		
20,700.0	10,079.3	20,993.0	10,322.4	93.6	93.7	120.01	-10,617.6	-726.8	485.0	301.3	183.69	2.640		
20,800.0	10,078.9	21,093.0	10,322.0	94.5	94.6	120.01	-10,717.6	-726.7	485.0	299.6	185.36	2.617		
20,900.0	10,078.5	21,193.0	10,321.6	95.3	95.4	120.01	-10,817.6	-726.6	485.0	298.0	187.03	2.593		
21,000.0	10,078.0	21,293.0	10,321.2	96.2	96.3	120.02	-10,917.6	-726.6	485.0	296.4	188.69	2.571		
21,100.0	10,077.6	21,393.0	10,320.8	97.0	97.1	120.02	-11,017.6	-726.5	485.1	294.7	190.36	2.548		
21,200.0	10,077.2	21,493.0	10,320.4	97.9	98.0	120.02	-11,117.6	-726.4	485.1	293.1	192.03	2.526		
21,300.0	10,076.8	21,593.0	10,320.0	98.7	98.8	120.03	-11,217.6	-726.3	485.1	291.4	193.70	2.504		
21,400.0	10,076.3	21,693.0	10,319.6	99.6	99.7	120.03	-11,317.6	-726.2	485.1	289.8	195.36	2.483		
21,500.0	10,075.9	21,793.0	10,319.2	100.5	100.5	120.04	-11,417.6	-726.2	485.1	288.1	197.03	2.462		
21,600.0	10,075.5	21,893.0	10,318.8	101.3	101.4	120.04	-11,517.6	-726.1	485.2	286.5	198.70	2.442		
21,700.0	10,075.0	21,993.0	10,318.5	102.2	102.2	120.04	-11,617.6	-726.0	485.2	284.8	200.37	2.421		
21,800.0	10,074.6	22,093.0	10,318.1	103.0	103.1	120.05	-11,717.6	-725.9	485.2	283.2	202.04	2.402		
21,900.0	10,074.2	22,193.0	10,317.7	103.9	103.9	120.05	-11,817.6	-725.9	485.2	281.5	203.71	2.382		
22,000.0	10,073.8	22,293.0	10,317.3	104.7	104.8	120.06	-11,917.6	-725.8	485.2	279.9	205.37	2.363		
22,100.0	10,073.3	22,393.0	10,316.9	105.6	105.7	120.06	-12,017.6	-725.7	485.3	278.2	207.04	2.344		
22,200.0	10,072.9	22,493.0	10,316.5	106.4	106.5	120.06	-12,117.6	-725.6	485.3	276.6	208.71	2.325		
22,300.0	10,072.5	22,593.0	10,316.1	107.3	107.4	120.07	-12,217.6	-725.6	485.3	274.9	210.38	2.307		
22,400.0	10,072.0	22,693.0	10,315.7	108.1	108.2	120.07	-12,317.6	-725.5	485.3	273.3	212.05	2.289		
22,500.0	10,071.6	22,793.0	10,315.3	109.0	109.1	120.08	-12,417.6	-725.4	485.3	271.6	213.72	2.271		
22,600.0	10,071.2	22,893.0	10,314.9	109.9	109.9	120.08	-12,517.6	-725.3	485.3	270.0	215.39	2.253		
22,700.0	10,070.8	22,993.0	10,314.6	110.7	110.8	120.08	-12,617.6	-725.3	485.4	268.3	217.06	2.236		
22,800.0	10,070.3	23,093.0	10,314.2	111.6	111.6	120.09	-12,717.6	-725.2	485.4	266.7	218.73	2.219		
22,900.0	10,069.9	23,193.0	10,313.8	112.4	112.5	120.09	-12,817.6	-725.1	485.4	265.0	220.40	2.202		
23,000.0	10,069.5	23,293.0	10,313.4	113.3	113.3	120.09	-12,917.6	-725.0	485.4	263.3	222.07	2.186		
23,100.0	10,069.0	23,393.0	10,313.0	114.1	114.2	120.10	-13,017.6	-725.0	485.4	261.7	223.75	2.170		
23,200.0	10,068.6	23,493.0	10,312.6	115.0	115.1	120.10	-13,117.6	-724.9	485.5	260.0	225.42	2.154		
23,300.0	10,068.2	23,593.0	10,312.2	115.8	115.9	120.11	-13,217.6	-724.8	485.5	258.4	227.09	2.138		
23,400.0	10,067.8	23,693.0	10,311.8	116.7	116.8	120.11	-13,317.6	-724.7	485.5	256.7	228.76	2.122		
23,500.0	10,067.3	23,793.0	10,311.4	117.6	117.6	120.11	-13,417.6	-724.6	485.5	255.1	230.43	2.107		
23,600.0	10,066.9	23,893.0	10,311.0	118.4	118.5	120.12	-13,517.6	-724.6	485.5	253.4	232.10	2.092		
23,700.0	10,066.5	23,993.0	10,310.6	119.3	119.3	120.12	-13,617.6	-724.5	485.6	251.8	233.77	2.077		
23,800.0	10,066.0	24,093.0	10,310.3	120.1	120.2	120.13	-13,717.6	-724.4	485.6	250.1	235.45	2.062		
23,900.0	10,065.6	24,193.0	10,309.9	121.0	121.0	120.13	-13,817.6	-724.3	485.6	248.5	237.12	2.048		
24,000.0	10,065.2	24,293.0	10,309.5	121.8	121.9	120.13	-13,917.6	-724.3	485.6	246.8	238.79	2.034		
24,100.0	10,064.8	24,393.0	10,309.1	122.7	122.8	120.14	-14,017.6	-724.2	485.6	245.2	240.46	2.020		
24,200.0	10,064.3	24,493.0	10,308.7	123.5	123.6	120.14	-14,117.6	-724.1	485.7	243.5	242.13	2.006		
24,300.0	10,063.9	24,593.0	10,308.3	124.4	124.5	120.15	-14,217.6	-724.0	485.7	241.9	243.81	1.992 Advise and Monitor		
24,400.0	10,063.5	24,693.0	10,307.9	125.3	125.3	120.15	-14,317.6	-724.0	485.7	240.2	245.48	1.979 Advise and Monitor		
24,500.0	10,063.1	24,793.0	10,307.5	126.1	126.2	120.15	-14,417.6	-723.9	485.7	238.6	247.15	1.965 Advise and Monitor		
24,600.0	10,062.6	24,893.0	10,307.1	127.0	127.0	120.16	-14,517.6	-723.8	485.7	236.9	248.82	1.952 Advise and Monitor		
24,700.0	10,062.2	24,993.0	10,306.7	127.8	127.9	120.16	-14,617.6	-723.7	485.7	235.3	250.50	1.939 Advise and Monitor		
24,800.0	10,061.8	25,093.0	10,306.4	128.7	128.7	120.16	-14,717.6	-723.7	485.8	233.6	252.17	1.926 Advise and Monitor		
24,900.0	10,061.3	25,193.0	10,306.0	129.5	129.6	120.17	-14,817.6	-723.6	485.8	231.9	253.84	1.914 Advise and Monitor		
25,000.0	10,060.9	25,293.0	10,305.6	130.4	130.5	120.17	-14,917.6	-723.5	485.8	230.3	255.52	1.901 Advise and Monitor		
25,100.0	10,060.5	25,393.0	10,305.2	131.3	131.3	120.18	-15,017.6	-723.4	485.8	228.6	257.19	1.889 Advise and Monitor		
25,200.0	10,060.1	25,493.0	10,304.8	132.1	132.2	120.18	-15,117.6	-723.4	485.8	227.0	258.86	1.877 Advise and Monitor		
25,300.0	10,059.6	25,593.0	10,304.4	133.0	133.0	120.18	-15,217.6	-723.3	485.9	225.3	260.53	1.865 Advise and Monitor		
25,400.0	10,059.2	25,693.0	10,304.0	133.8	133.9	120.19	-15,317.6	-723.2	485.9	223.7	262.21	1.853 Advise and Monitor		
25,500.0	10,058.8	25,793.0	10,303.6	134.7	134.7	120.19	-15,417.6	-723.1	485.9	222.0	263.88	1.841 Advise and Monitor		
25,600.0	10,058.3	25,893.0	10,303.2	135.5	135.6	120.20	-15,517.6	-723.0	485.9	220.4	265.56	1.830 Advise and Monitor		
25,600.0	10,058.3	25,893.0	10,303.2	135.5	135.6	120.20	-15,517.6	-723.0	485.9	220.4	265.56	1.830 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
25,678.8	10,058.0	25,952.6	10,303.0		136.2	136.1	120.20	-15,577.2	-723.0	486.3	219.9	266.37	1.826	Advise and Monitor, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	0.3	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	-4.98	45.2	-3.9	45.3	37.3	8.02	5.654	
2,200.0	2,200.0	2,199.5	2,199.4	4.1	4.0	-11.30	45.6	-9.1	46.6	38.4	8.11	5.739	
2,300.0	2,300.0	2,298.6	2,298.0	4.2	4.1	-20.84	46.4	-17.7	49.7	41.6	8.14	6.110	
2,400.0	2,400.0	2,396.9	2,395.6	4.3	4.1	-31.85	47.5	-29.5	56.2	48.1	8.07	6.955	
2,500.0	2,500.0	2,494.2	2,491.8	4.4	4.2	-42.32	48.9	-44.5	66.7	58.8	7.95	8.394	
2,600.0	2,600.0	2,590.8	2,586.6	4.5	4.2	20.58	50.6	-62.6	80.1	72.2	7.84	10.213	
2,700.0	2,699.8	2,689.3	2,683.0	4.5	4.3	14.50	52.5	-83.0	93.0	85.2	7.81	11.912	
2,800.0	2,799.5	2,788.5	2,780.0	4.6	4.3	10.27	54.4	-103.6	103.4	95.6	7.84	13.193	
2,900.0	2,898.9	2,887.9	2,877.2	4.6	4.4	6.96	56.3	-124.1	112.5	104.6	7.89	14.254	
3,000.0	2,998.4	2,987.3	2,974.5	4.7	4.4	4.15	58.2	-144.7	121.9	113.9	7.96	15.308	
3,100.0	3,097.8	3,086.7	3,071.7	4.8	4.5	1.75	60.1	-165.3	131.5	123.5	8.05	16.347	
3,200.0	3,197.3	3,186.1	3,168.9	4.8	4.6	-0.32	62.0	-185.9	141.4	133.2	8.14	17.363	
3,300.0	3,296.7	3,285.5	3,266.1	4.9	4.7	-2.12	63.9	-206.4	151.4	143.1	8.25	18.354	
3,400.0	3,396.2	3,384.9	3,363.3	5.0	4.8	-3.69	65.8	-227.0	161.5	153.1	8.36	19.314	
3,500.0	3,495.6	3,484.3	3,460.6	5.0	4.8	-5.08	67.7	-247.6	171.7	163.3	8.48	20.243	
3,600.0	3,595.1	3,583.7	3,557.8	5.1	4.9	-6.31	69.6	-268.2	182.1	173.5	8.61	21.138	
3,700.0	3,694.5	3,683.0	3,655.0	5.2	5.0	-7.41	71.5	-288.8	192.5	183.7	8.75	22.000	
3,800.0	3,794.0	3,782.4	3,752.2	5.3	5.1	-8.40	73.4	-309.3	202.9	194.0	8.89	22.827	
3,900.0	3,893.4	3,881.8	3,849.4	5.4	5.2	-9.29	75.3	-329.9	213.5	204.4	9.04	23.621	
4,000.0	3,992.9	3,981.2	3,946.7	5.4	5.3	-10.10	77.2	-350.5	224.0	214.8	9.19	24.381	
4,100.0	4,092.3	4,080.6	4,043.9	5.5	5.4	-10.83	79.1	-371.1	234.6	225.3	9.34	25.107	
4,200.0	4,191.8	4,180.0	4,141.1	5.6	5.5	-11.50	81.0	-391.6	245.3	235.8	9.51	25.802	
4,300.0	4,291.2	4,279.4	4,238.3	5.7	5.6	-12.12	82.9	-412.2	255.9	246.3	9.67	26.465	
4,400.0	4,390.7	4,378.8	4,335.6	5.8	5.8	-12.68	84.8	-432.8	266.6	256.8	9.84	27.099	
4,500.0	4,490.1	4,478.2	4,432.8	5.9	5.9	-13.20	86.7	-453.4	277.4	267.3	10.01	27.702	
4,600.0	4,589.6	4,577.6	4,530.0	6.0	6.0	-13.68	88.6	-474.0	288.1	277.9	10.19	28.278	
4,700.0	4,689.0	4,677.0	4,627.2	6.1	6.1	-14.13	90.5	-494.5	298.9	288.5	10.37	28.827	
4,800.0	4,788.5	4,776.4	4,724.4	6.2	6.2	-14.55	92.4	-515.1	309.6	299.1	10.55	29.350	
4,900.0	4,887.9	4,875.8	4,821.7	6.3	6.4	-14.94	94.3	-535.7	320.4	309.7	10.74	29.848	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9759-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference 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)					
5,000.0	4,987.4	4,975.2	4,918.9	6.4	6.5	-15.30	96.2	-556.3	331.2	320.3	10.92	30.323	
5,100.0	5,086.9	5,074.6	5,016.1	6.5	6.6	-15.64	98.1	-576.8	342.1	330.9	11.11	30.775	
5,200.0	5,186.3	5,173.9	5,113.3	6.6	6.8	-15.96	100.0	-597.4	352.9	341.6	11.31	31.206	
5,300.0	5,285.8	5,273.3	5,210.5	6.7	6.9	-16.26	101.9	-618.0	363.7	352.2	11.50	31.616	
5,400.0	5,385.2	5,372.7	5,307.8	6.8	7.0	-16.55	103.8	-638.6	374.6	362.9	11.70	32.007	
5,500.0	5,484.7	5,472.1	5,405.0	6.9	7.2	-16.81	105.7	-659.1	385.4	373.5	11.90	32.379	
5,600.0	5,584.1	5,571.5	5,502.2	7.0	7.3	-17.07	107.6	-679.7	396.3	384.2	12.11	32.734	
5,700.0	5,683.6	5,670.9	5,599.4	7.1	7.5	-17.30	109.5	-700.3	407.2	394.9	12.31	33.072	
5,800.0	5,783.0	5,770.3	5,696.6	7.2	7.6	-17.53	111.4	-720.9	418.1	405.5	12.52	33.394	
5,900.0	5,882.5	5,869.7	5,793.9	7.3	7.8	-17.75	113.3	-741.5	428.9	416.2	12.73	33.701	
6,000.0	5,981.9	5,969.1	5,891.1	7.4	7.9	-17.95	115.3	-762.0	439.8	426.9	12.94	33.994	
6,100.0	6,081.4	6,068.5	5,988.3	7.6	8.1	-18.15	117.2	-782.6	450.7	437.6	13.15	34.273	
6,200.0	6,180.8	6,167.9	6,085.5	7.7	8.2	-18.33	119.1	-803.2	461.6	448.3	13.37	34.540	
6,300.0	6,280.3	6,267.3	6,182.8	7.8	8.4	-18.51	121.0	-823.8	472.5	459.0	13.58	34.794	
6,400.0	6,379.7	6,366.7	6,280.0	7.9	8.6	-18.68	122.9	-844.3	483.4	469.7	13.80	35.036	
6,500.0	6,479.2	6,466.1	6,377.2	8.0	8.7	-18.84	124.8	-864.9	494.4	480.3	14.02	35.268	
6,600.0	6,578.6	6,565.4	6,474.4	8.1	8.9	-18.99	126.7	-885.5	505.3	491.0	14.24	35.488	
6,700.0	6,678.1	6,664.8	6,571.6	8.2	9.1	-19.14	128.6	-906.1	516.2	501.7	14.46	35.699	
6,800.0	6,777.5	6,764.2	6,668.9	8.3	9.2	-19.28	130.5	-926.7	527.1	512.4	14.68	35.901	
6,900.0	6,877.0	6,863.6	6,766.1	8.5	9.4	-19.42	132.4	-947.2	538.1	523.1	14.91	36.093	
7,000.0	6,976.4	6,963.0	6,863.3	8.6	9.6	-19.55	134.3	-967.8	549.0	533.9	15.13	36.277	
7,100.0	7,075.9	7,062.4	6,960.5	8.7	9.8	-19.67	136.2	-988.4	559.9	544.6	15.36	36.452	
7,200.0	7,175.3	7,161.8	7,057.7	8.8	10.0	-19.80	138.1	-1,009.0	570.9	555.3	15.59	36.620	
7,300.0	7,274.8	7,261.2	7,155.0	8.9	10.2	-19.91	140.0	-1,029.5	581.8	566.0	15.82	36.781	
7,400.0	7,374.3	7,360.6	7,252.2	9.0	10.3	-20.02	141.9	-1,050.1	592.7	576.7	16.05	36.934	
7,500.0	7,473.7	7,460.0	7,349.4	9.2	10.5	-20.13	143.8	-1,070.7	603.7	587.4	16.28	37.081	
7,519.8	7,493.4	7,479.7	7,368.7	9.2	10.6	-20.15	144.2	-1,074.8	605.9	589.5	16.33	37.109	
7,600.0	7,573.2	7,559.3	7,446.6	9.3	10.7	-20.25	145.7	-1,091.3	615.1	598.6	16.51	37.251	
7,700.0	7,672.9	7,658.5	7,543.5	9.4	10.9	-20.32	147.6	-1,111.8	628.2	611.5	16.75	37.503	
7,800.0	7,772.7	7,757.4	7,640.3	9.5	11.1	-20.35	149.5	-1,132.3	642.9	625.9	16.99	37.837	
7,900.0	7,872.6	7,856.0	7,736.8	9.6	11.3	-20.32	151.4	-1,152.7	659.2	642.0	17.23	38.251	
8,000.0	7,972.5	7,954.4	7,833.0	9.7	11.5	-20.26	153.3	-1,173.1	677.1	659.6	17.48	38.740	
8,100.0	8,072.5	8,052.5	7,928.9	9.8	11.8	-20.16	155.1	-1,193.4	696.6	678.9	17.73	39.299	
8,119.8	8,092.3	8,071.9	7,947.9	9.9	11.8	-91.46	155.5	-1,197.4	700.7	682.9	17.77	39.433	
8,200.0	8,172.5	8,150.3	8,024.6	9.9	12.0	-91.31	157.0	-1,213.6	717.3	699.3	17.92	40.031	
8,300.0	8,272.5	8,251.2	8,123.3	10.0	12.2	-91.12	158.9	-1,234.4	737.9	719.8	18.10	40.770	
8,400.0	8,372.5	8,363.9	8,233.9	10.1	12.4	-90.93	160.9	-1,256.2	757.2	738.9	18.27	41.456	
8,500.0	8,472.5	8,477.4	8,345.7	10.2	12.6	-90.77	162.8	-1,276.0	774.6	756.1	18.44	42.012	
8,600.0	8,572.5	8,591.8	8,458.6	10.3	12.8	-90.63	164.4	-1,293.7	790.0	771.4	18.61	42.439	
8,700.0	8,672.5	8,706.7	8,572.5	10.5	13.0	-90.51	165.8	-1,309.2	803.5	784.7	18.80	42.738	
8,800.0	8,772.5	8,822.3	8,687.3	10.6	13.2	-90.42	167.1	-1,322.4	815.0	796.0	18.99	42.908	
8,900.0	8,872.5	8,938.4	8,802.9	10.7	13.3	-90.34	168.1	-1,333.5	824.4	805.2	19.19	42.951	
9,000.0	8,972.5	9,054.9	8,919.0	10.8	13.4	-90.28	168.9	-1,342.2	831.9	812.5	19.41	42.866	
9,100.0	9,072.5	9,171.7	9,035.6	10.9	13.5	-90.24	169.5	-1,348.5	837.4	817.7	19.63	42.656	
9,200.0	9,172.5	9,288.7	9,152.6	11.0	13.6	-90.22	169.8	-1,352.5	840.8	820.9	19.87	42.324	
9,300.0	9,272.5	9,405.8	9,269.7	11.1	13.6	-90.20	170.0	-1,354.2	842.2	822.1	20.11	41.870	
9,400.0	9,372.5	9,508.9	9,372.8	11.2	13.7	-90.20	170.0	-1,354.2	842.2	822.0	20.22	41.645	
9,500.0	9,472.5	9,608.9	9,472.8	11.3	13.8	-90.20	170.0	-1,354.2	842.2	821.9	20.31	41.461	
9,577.5	9,550.0	9,687.1	9,551.0	11.3	13.8	-90.21	169.9	-1,354.2	842.2	821.8	20.37	41.347	
9,600.0	9,572.5	9,711.1	9,575.0	11.3	13.8	-92.43	168.9	-1,354.1	842.2	821.8	20.38	41.320	
9,650.0	9,622.3	9,764.4	9,627.9	11.3	14.1	-92.35	163.2	-1,353.9	842.1	821.7	20.40	41.274	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9759-MWD+IFR1+FDIR					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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	
9,700.0	9,671.6	9,817.5	9,680.0	11.4	14.7	92.25	152.7	-1,353.4	842.1	821.7	20.41	41.256		
9,750.0	9,719.9	9,870.5	9,730.7	11.4	14.7	92.13	137.4	-1,352.7	842.0	821.6	20.41	41.248		
9,800.0	9,766.9	9,923.2	9,779.6	11.4	14.7	91.99	117.6	-1,351.7	841.9	821.5	20.43	41.219		
9,850.0	9,812.3	9,975.8	9,826.2	11.4	14.8	91.83	93.5	-1,350.6	841.8	821.4	20.45	41.161		
9,900.0	9,855.7	10,028.1	9,870.3	11.5	14.8	91.67	65.3	-1,349.3	841.8	821.3	20.50	41.068		
9,950.0	9,896.8	10,080.2	9,911.4	11.5	14.9	91.49	33.5	-1,347.8	841.7	821.1	20.56	40.931		
10,000.0	9,935.2	10,131.9	9,949.3	11.6	14.9	91.29	-1.8	-1,346.1	841.6	820.9	20.66	40.745		
10,050.0	9,970.7	10,183.4	9,983.6	11.6	15.0	91.09	-40.1	-1,344.3	841.5	820.7	20.78	40.502		
10,100.0	10,003.0	10,234.7	10,014.2	11.7	15.0	90.88	-81.1	-1,342.4	841.5	820.5	20.93	40.200		
10,150.0	10,031.9	10,285.6	10,040.9	11.8	15.1	90.67	-124.4	-1,340.4	841.4	820.3	21.12	39.836		
10,200.0	10,057.1	10,336.2	10,063.5	11.8	15.2	90.45	-169.6	-1,338.2	841.4	820.0	21.35	39.411		
10,250.0	10,078.4	10,386.5	10,081.9	11.9	15.2	90.22	-216.4	-1,336.0	841.3	819.7	21.61	38.930		
10,300.0	10,095.7	10,436.6	10,096.1	12.0	15.3	90.00	-264.3	-1,333.8	841.3	819.4	21.91	38.400		
10,350.0	10,108.8	10,486.3	10,105.9	12.1	15.3	89.78	-313.0	-1,331.5	841.3	819.1	22.24	37.829		
10,351.5	10,109.2	10,487.9	10,106.2	12.1	15.3	89.77	-314.5	-1,331.4	841.3	819.0	22.25	37.811		
10,400.0	10,117.7	10,535.8	10,111.5	12.1	15.4	89.56	-362.1	-1,329.2	841.3	818.7	22.60	37.229		
10,450.0	10,122.3	10,585.1	10,112.9	12.2	15.4	89.34	-411.3	-1,326.9	841.3	818.3	22.98	36.613		
10,479.9	10,123.0	10,615.1	10,112.8	12.3	15.4	89.29	-441.2	-1,325.5	841.3	818.1	23.22	36.239		
10,500.0	10,122.9	10,635.1	10,112.7	12.3	15.5	89.29	-461.3	-1,324.5	841.3	817.9	23.38	35.986		
10,600.0	10,122.4	10,735.1	10,112.2	12.5	15.5	89.28	-561.2	-1,319.8	841.3	817.0	24.25	34.692		
10,700.0	10,122.0	10,835.1	10,111.8	12.8	15.6	89.28	-661.0	-1,315.1	841.3	816.1	25.21	33.370		
10,800.0	10,121.6	10,935.1	10,111.3	13.1	15.7	89.28	-760.9	-1,310.4	841.2	815.0	26.25	32.049		
10,900.0	10,121.2	11,035.1	10,110.8	13.5	15.8	89.28	-860.8	-1,305.7	841.2	813.9	27.36	30.750		
11,000.0	10,120.7	11,135.1	10,110.4	14.0	16.0	89.27	-960.7	-1,301.0	841.2	812.7	28.53	29.489		
11,100.0	10,120.3	11,235.1	10,109.9	14.5	16.2	89.27	-1,060.6	-1,296.3	841.2	811.4	29.75	28.275		
11,200.0	10,119.9	11,335.1	10,109.5	15.1	16.6	89.27	-1,160.5	-1,291.6	841.1	810.1	31.02	27.115		
11,300.0	10,119.5	11,435.1	10,109.0	15.8	17.0	89.27	-1,260.4	-1,286.9	841.1	808.8	32.33	26.013		
11,400.0	10,119.0	11,535.1	10,108.5	16.4	17.6	89.27	-1,360.3	-1,282.3	841.1	807.4	33.68	24.969		
11,500.0	10,118.6	11,635.1	10,108.1	17.1	18.2	89.26	-1,460.2	-1,277.6	841.1	806.0	35.07	23.983		
11,600.0	10,118.2	11,735.1	10,107.6	17.8	18.9	89.26	-1,560.0	-1,272.9	841.0	804.5	36.48	23.054		
11,700.0	10,117.8	11,835.1	10,107.2	18.5	19.6	89.26	-1,659.9	-1,268.2	841.0	803.1	37.92	22.178		
11,800.0	10,117.3	11,935.1	10,106.7	19.2	20.3	89.26	-1,759.8	-1,263.5	841.0	801.6	39.38	21.354		
11,900.0	10,116.9	12,035.1	10,106.2	20.0	21.0	89.25	-1,859.7	-1,258.8	841.0	800.1	40.86	20.579		
12,000.0	10,116.5	12,135.1	10,105.8	20.7	21.7	89.25	-1,959.6	-1,254.1	840.9	798.6	42.37	19.849		
12,100.0	10,116.0	12,235.1	10,105.3	21.5	22.5	89.25	-2,059.5	-1,249.4	840.9	797.0	43.88	19.162		
12,200.0	10,115.6	12,335.1	10,104.9	22.3	23.2	89.25	-2,159.4	-1,244.7	840.9	795.5	45.42	18.515		
12,300.0	10,115.2	12,435.1	10,104.4	23.0	24.0	89.24	-2,259.3	-1,240.0	840.8	793.9	46.96	17.905		
12,400.0	10,114.8	12,535.1	10,103.9	23.8	24.8	89.24	-2,359.2	-1,235.3	840.8	792.3	48.52	17.329		
12,500.0	10,114.3	12,635.1	10,103.5	24.6	25.5	89.24	-2,459.0	-1,230.6	840.8	790.7	50.09	16.786		
12,600.0	10,113.9	12,735.1	10,103.0	25.4	26.3	89.24	-2,558.9	-1,225.9	840.8	789.1	51.67	16.272		
12,700.0	10,113.5	12,835.1	10,102.5	26.2	27.1	89.23	-2,658.8	-1,221.2	840.7	787.5	53.26	15.787		
12,800.0	10,113.1	12,935.1	10,102.1	27.0	27.9	89.23	-2,758.7	-1,216.5	840.7	785.9	54.85	15.327		
12,900.0	10,112.6	13,035.1	10,101.6	27.8	28.7	89.23	-2,858.6	-1,211.8	840.7	784.2	56.46	14.891		
13,000.0	10,112.2	13,135.1	10,101.2	28.6	29.5	89.23	-2,958.5	-1,207.1	840.7	782.6	58.07	14.477		
13,100.0	10,111.8	13,235.1	10,100.7	29.4	30.3	89.22	-3,058.4	-1,202.4	840.6	780.9	59.69	14.084		
13,200.0	10,111.4	13,335.1	10,100.2	30.3	31.1	89.22	-3,158.3	-1,197.7	840.6	779.3	61.31	13.711		
13,300.0	10,110.9	13,435.1	10,099.8	31.1	31.9	89.22	-3,258.2	-1,193.0	840.6	777.6	62.94	13.355		
13,400.0	10,110.5	13,535.1	10,099.3	31.9	32.7	89.22	-3,358.0	-1,188.3	840.6	776.0	64.57	13.017		
13,500.0	10,110.1	13,635.1	10,098.9	32.7	33.5	89.22	-3,457.9	-1,183.6	840.5	774.3	66.21	12.694		
13,600.0	10,109.7	13,735.1	10,098.4	33.6	34.3	89.21	-3,557.8	-1,178.9	840.5	772.6	67.86	12.387		
13,700.0	10,109.2	13,835.1	10,097.9	34.4	35.1	89.21	-3,657.7	-1,174.2	840.5	771.0	69.50	12.093		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9759-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	10,108.8	13,935.1	10,097.5	35.2	35.9	89.21	-3,757.6	-1,169.5	840.5	769.3	71.15	11.812		
13,900.0	10,108.4	14,035.1	10,097.0	36.0	36.8	89.21	-3,857.5	-1,164.8	840.4	767.6	72.81	11.543		
14,000.0	10,107.9	14,135.1	10,096.6	36.9	37.6	89.20	-3,957.4	-1,160.1	840.4	765.9	74.47	11.285		
14,100.0	10,107.5	14,235.1	10,096.1	37.7	38.4	89.20	-4,057.3	-1,155.4	840.4	764.2	76.13	11.039		
14,200.0	10,107.1	14,335.1	10,095.6	38.6	39.2	89.20	-4,157.1	-1,150.7	840.3	762.6	77.79	10.802		
14,300.0	10,106.7	14,435.1	10,095.2	39.4	40.1	89.20	-4,257.0	-1,146.1	840.3	760.9	79.46	10.576		
14,400.0	10,106.2	14,535.1	10,094.7	40.2	40.9	89.19	-4,356.9	-1,141.4	840.3	759.2	81.13	10.358		
14,500.0	10,105.8	14,635.1	10,094.3	41.1	41.7	89.19	-4,456.8	-1,136.7	840.3	757.5	82.80	10.148		
14,600.0	10,105.4	14,735.1	10,093.8	41.9	42.6	89.19	-4,556.7	-1,132.0	840.2	755.8	84.47	9.947		
14,700.0	10,105.0	14,835.1	10,093.3	42.7	43.4	89.19	-4,656.6	-1,127.3	840.2	754.1	86.15	9.753		
14,800.0	10,104.5	14,935.1	10,092.9	43.6	44.2	89.18	-4,756.5	-1,122.6	840.2	752.4	87.83	9.567		
14,900.0	10,104.1	15,035.1	10,092.4	44.4	45.1	89.18	-4,856.4	-1,117.9	840.2	750.7	89.51	9.387		
15,000.0	10,103.7	15,135.1	10,091.9	45.3	45.9	89.18	-4,956.3	-1,113.2	840.1	749.0	91.19	9.213		
15,100.0	10,103.3	15,235.1	10,091.5	46.1	46.7	89.18	-5,056.1	-1,108.5	840.1	747.2	92.87	9.046		
15,138.3	10,103.1	15,273.4	10,091.3	46.4	47.1	89.18	-5,094.4	-1,106.7	840.1	746.6	93.51	8.984		
15,183.4	10,102.9	15,300.0	10,091.2	46.8	47.3	89.18	-5,121.0	-1,105.5	840.4	746.3	94.12	8.929		
15,200.0	10,102.8	15,321.6	10,091.1	47.0	47.5	89.18	-5,142.5	-1,104.8	840.5	746.1	94.45	8.900		
15,300.0	10,102.4	15,400.0	10,090.7	47.8	48.1	89.18	-5,220.9	-1,103.4	841.1	745.2	95.91	8.770		
15,341.6	10,102.2	15,433.7	10,090.6	48.2	48.4	89.19	-5,254.7	-1,103.5	841.2	744.6	96.52	8.715		
15,364.1	10,102.1	15,452.7	10,090.5	48.3	48.6	89.19	-5,273.7	-1,103.7	841.1	744.3	96.85	8.685		
15,400.0	10,102.0	15,488.6	10,090.3	48.7	48.9	89.19	-5,309.6	-1,104.0	841.1	743.7	97.45	8.632		
15,500.0	10,101.5	15,588.6	10,089.9	49.5	49.7	89.18	-5,409.6	-1,104.8	841.1	742.0	99.12	8.486		
15,600.0	10,101.1	15,688.6	10,089.4	50.3	50.5	89.18	-5,509.6	-1,105.6	841.1	740.3	100.80	8.344		
15,700.0	10,100.7	15,788.6	10,088.9	51.2	51.4	89.18	-5,609.6	-1,106.5	841.1	738.6	102.47	8.208		
15,800.0	10,100.3	15,888.6	10,088.5	52.0	52.2	89.18	-5,709.6	-1,107.3	841.0	736.9	104.15	8.075		
15,900.0	10,099.8	15,988.6	10,088.0	52.9	53.0	89.17	-5,809.5	-1,108.1	841.0	735.2	105.83	7.947		
16,000.0	10,099.4	16,088.6	10,087.5	53.7	53.9	89.17	-5,909.5	-1,109.0	841.0	733.5	107.51	7.822		
16,100.0	10,099.0	16,188.6	10,087.1	54.5	54.7	89.17	-6,009.5	-1,109.8	841.0	731.8	109.19	7.702		
16,200.0	10,098.6	16,288.6	10,086.6	55.4	55.6	89.17	-6,109.5	-1,110.6	841.0	730.1	110.88	7.585		
16,300.0	10,098.1	16,388.6	10,086.2	56.2	56.4	89.16	-6,209.5	-1,111.4	840.9	728.4	112.56	7.471		
16,400.0	10,097.7	16,488.6	10,085.7	57.1	57.2	89.16	-6,309.5	-1,112.3	840.9	726.7	114.24	7.361		
16,500.0	10,097.3	16,588.6	10,085.2	57.9	58.1	89.16	-6,409.5	-1,113.1	840.9	725.0	115.93	7.253		
16,600.0	10,096.8	16,688.6	10,084.8	58.8	58.9	89.16	-6,509.5	-1,113.9	840.9	723.2	117.62	7.149		
16,700.0	10,096.4	16,788.6	10,084.3	59.6	59.8	89.15	-6,609.5	-1,114.8	840.8	721.5	119.30	7.048		
16,800.0	10,096.0	16,888.6	10,083.9	60.5	60.6	89.15	-6,709.5	-1,115.6	840.8	719.8	120.99	6.949		
16,900.0	10,095.6	16,988.6	10,083.4	61.3	61.4	89.15	-6,809.5	-1,116.4	840.8	718.1	122.68	6.854		
17,000.0	10,095.1	17,088.6	10,082.9	62.1	62.3	89.15	-6,909.5	-1,117.2	840.8	716.4	124.37	6.760		
17,100.0	10,094.7	17,188.6	10,082.5	63.0	63.1	89.15	-7,009.5	-1,118.1	840.8	714.7	126.06	6.670		
17,200.0	10,094.3	17,288.6	10,082.0	63.8	64.0	89.14	-7,109.5	-1,118.9	840.7	713.0	127.75	6.581		
17,300.0	10,093.9	17,388.6	10,081.5	64.7	64.8	89.14	-7,209.5	-1,119.7	840.7	711.3	129.44	6.495		
17,400.0	10,093.4	17,488.6	10,081.1	65.5	65.7	89.14	-7,309.5	-1,120.6	840.7	709.6	131.13	6.411		
17,500.0	10,093.0	17,588.6	10,080.6	66.4	66.5	89.14	-7,409.5	-1,121.4	840.7	707.8	132.83	6.329		
17,600.0	10,092.6	17,688.6	10,080.2	67.2	67.3	89.13	-7,509.5	-1,122.2	840.6	706.1	134.52	6.249		
17,700.0	10,092.1	17,788.6	10,079.7	68.1	68.2	89.13	-7,609.5	-1,123.1	840.6	704.4	136.21	6.171		
17,800.0	10,091.7	17,888.6	10,079.2	68.9	69.0	89.13	-7,709.5	-1,123.9	840.6	702.7	137.91	6.095		
17,900.0	10,091.3	17,988.6	10,078.8	69.8	69.9	89.13	-7,809.5	-1,124.7	840.6	701.0	139.60	6.021		
18,000.0	10,090.9	18,088.6	10,078.3	70.6	70.7	89.12	-7,909.5	-1,125.5	840.6	699.3	141.30	5.949		
18,100.0	10,090.4	18,188.6	10,077.9	71.5	71.6	89.12	-8,009.5	-1,126.4	840.5	697.5	142.99	5.878		
18,200.0	10,090.0	18,288.6	10,077.4	72.3	72.4	89.12	-8,109.4	-1,127.2	840.5	695.8	144.69	5.809		
18,300.0	10,089.6	18,388.6	10,076.9	73.2	73.3	89.12	-8,209.4	-1,128.0	840.5	694.1	146.39	5.742		
18,400.0	10,089.2	18,488.6	10,076.5	74.0	74.1	89.11	-8,309.4	-1,128.9	840.5	692.4	148.08	5.676		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured	Depth	Depth	Depth	Reference	Offset	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation
Depth	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor
(usft)		(usft)	(usft)							(usft)	(usft)	(usft)	
18,500.0	10,088.7	18,588.6	10,076.0	74.9	75.0	89.11	89.11	-8,409.4	-1,129.7	840.4	690.7	149.78	5.611
18,600.0	10,088.3	18,688.6	10,075.5	75.7	75.8	89.11	89.11	-8,509.4	-1,130.5	840.4	688.9	151.48	5.548
18,700.0	10,087.9	18,788.6	10,075.1	76.6	76.7	89.11	89.11	-8,609.4	-1,131.3	840.4	687.2	153.18	5.486
18,800.0	10,087.4	18,888.6	10,074.6	77.4	77.5	89.11	89.11	-8,709.4	-1,132.2	840.4	685.5	154.88	5.426
18,900.0	10,087.0	18,988.6	10,074.2	78.3	78.4	89.10	89.10	-8,809.4	-1,133.0	840.4	683.8	156.58	5.367
19,000.0	10,086.6	19,088.6	10,073.7	79.1	79.2	89.10	89.10	-8,909.4	-1,133.8	840.3	682.1	158.27	5.309
19,100.0	10,086.2	19,188.6	10,073.2	80.0	80.1	89.10	89.10	-9,009.4	-1,134.7	840.3	680.3	159.97	5.253
19,200.0	10,085.7	19,288.6	10,072.8	80.8	80.9	89.10	89.10	-9,109.4	-1,135.5	840.3	678.6	161.67	5.197
19,300.0	10,085.3	19,388.6	10,072.3	81.7	81.7	89.09	89.09	-9,209.4	-1,136.3	840.3	676.9	163.38	5.143
19,400.0	10,084.9	19,488.6	10,071.9	82.5	82.6	89.09	89.09	-9,309.4	-1,137.2	840.2	675.2	165.08	5.090
19,500.0	10,084.5	19,588.6	10,071.4	83.4	83.4	89.09	89.09	-9,409.4	-1,138.0	840.2	673.4	166.78	5.038
19,600.0	10,084.0	19,688.6	10,070.9	84.2	84.3	89.09	89.09	-9,509.4	-1,138.8	840.2	671.7	168.48	4.987
19,700.0	10,083.6	19,788.6	10,070.5	85.1	85.1	89.08	89.08	-9,609.4	-1,139.6	840.2	670.0	170.18	4.937
19,800.0	10,083.2	19,888.6	10,070.0	85.9	86.0	89.08	89.08	-9,709.4	-1,140.5	840.2	668.3	171.88	4.888
19,900.0	10,082.7	19,988.6	10,069.5	86.8	86.8	89.08	89.08	-9,809.4	-1,141.3	840.1	666.5	173.58	4.840
20,000.0	10,082.3	20,088.6	10,069.1	87.6	87.7	89.08	89.08	-9,909.4	-1,142.1	840.1	664.8	175.29	4.793
20,100.0	10,081.9	20,188.6	10,068.6	88.5	88.5	89.07	89.07	-10,009.4	-1,143.0	840.1	663.1	176.99	4.747
20,200.0	10,081.5	20,288.6	10,068.2	89.4	89.4	89.07	89.07	-10,109.4	-1,143.8	840.1	661.4	178.69	4.701
20,300.0	10,081.0	20,388.6	10,067.7	90.2	90.2	89.07	89.07	-10,209.4	-1,144.6	840.0	659.6	180.40	4.657
20,400.0	10,080.6	20,488.6	10,067.2	91.1	91.1	89.07	89.07	-10,309.3	-1,145.4	840.0	657.9	182.10	4.613
20,500.0	10,080.2	20,588.6	10,066.8	91.9	91.9	89.06	89.06	-10,409.3	-1,146.3	840.0	656.2	183.80	4.570
20,543.7	10,080.0	20,634.6	10,066.6	92.3	92.3	89.06	89.06	-10,455.3	-1,146.6	840.0	655.4	184.58	4.551
20,570.2	10,079.9	20,666.5	10,066.4	92.5	92.6	89.06	89.06	-10,487.2	-1,146.7	839.9	654.8	185.09	4.538
20,570.3	10,079.9	20,666.5	10,066.4	92.5	92.6	89.06	89.06	-10,487.2	-1,146.7	839.9	654.8	185.09	4.538
20,600.0	10,079.8	20,696.2	10,066.3	92.8	92.9	89.06	89.06	-10,516.9	-1,146.7	839.9	654.3	185.60	4.525
20,700.0	10,079.3	20,796.2	10,065.8	93.6	93.7	89.06	89.06	-10,616.9	-1,146.6	839.9	652.6	187.31	4.484
20,800.0	10,078.9	20,896.2	10,065.4	94.5	94.6	89.06	89.06	-10,716.9	-1,146.5	839.9	650.9	189.01	4.444
20,900.0	10,078.5	20,996.2	10,064.9	95.3	95.4	89.05	89.05	-10,816.9	-1,146.4	839.9	649.2	190.72	4.404
21,000.0	10,078.0	21,096.2	10,064.4	96.2	96.3	89.05	89.05	-10,916.9	-1,146.4	839.9	647.5	192.43	4.365
21,100.0	10,077.6	21,196.2	10,064.0	97.0	97.1	89.05	89.05	-11,016.9	-1,146.3	839.9	645.8	194.13	4.326
21,200.0	10,077.2	21,296.2	10,063.5	97.9	98.0	89.05	89.05	-11,116.9	-1,146.2	839.9	644.1	195.84	4.289
21,300.0	10,076.8	21,396.2	10,063.0	98.7	98.8	89.04	89.04	-11,216.9	-1,146.1	839.9	642.4	197.55	4.252
21,400.0	10,076.3	21,496.2	10,062.6	99.6	99.7	89.04	89.04	-11,316.9	-1,146.1	839.9	640.7	199.26	4.215
21,500.0	10,075.9	21,596.2	10,062.1	100.5	100.5	89.04	89.04	-11,416.9	-1,146.0	839.9	639.0	200.96	4.179
21,600.0	10,075.5	21,696.2	10,061.7	101.3	101.4	89.04	89.04	-11,516.9	-1,145.9	839.9	637.3	202.67	4.144
21,700.0	10,075.0	21,796.2	10,061.2	102.2	102.2	89.04	89.04	-11,616.9	-1,145.8	839.9	635.5	204.38	4.110
21,800.0	10,074.6	21,896.2	10,060.7	103.0	103.1	89.03	89.03	-11,716.9	-1,145.8	839.9	633.8	206.09	4.076
21,900.0	10,074.2	21,996.2	10,060.3	103.9	104.0	89.03	89.03	-11,816.9	-1,145.7	839.9	632.1	207.79	4.042
22,000.0	10,073.8	22,096.2	10,059.8	104.7	104.8	89.03	89.03	-11,916.9	-1,145.6	839.9	630.4	209.50	4.009
22,100.0	10,073.3	22,196.2	10,059.4	105.6	105.7	89.03	89.03	-12,016.9	-1,145.5	839.9	628.7	211.21	3.977
22,200.0	10,072.9	22,296.2	10,058.9	106.4	106.5	89.02	89.02	-12,116.9	-1,145.5	839.9	627.0	212.92	3.945
22,300.0	10,072.5	22,396.2	10,058.4	107.3	107.4	89.02	89.02	-12,216.9	-1,145.4	839.9	625.3	214.63	3.913
22,400.0	10,072.0	22,496.2	10,058.0	108.1	108.2	89.02	89.02	-12,316.9	-1,145.3	839.9	623.6	216.34	3.883
22,500.0	10,071.6	22,596.2	10,057.5	109.0	109.1	89.02	89.02	-12,416.9	-1,145.2	839.9	621.9	218.05	3.852
22,600.0	10,071.2	22,696.2	10,057.0	109.9	109.9	89.01	89.01	-12,516.9	-1,145.2	839.9	620.2	219.76	3.822
22,700.0	10,070.8	22,796.2	10,056.6	110.7	110.8	89.01	89.01	-12,616.9	-1,145.1	839.9	618.5	221.47	3.793
22,800.0	10,070.3	22,896.2	10,056.1	111.6	111.6	89.01	89.01	-12,716.9	-1,145.0	839.9	616.8	223.18	3.764
22,900.0	10,069.9	22,996.2	10,055.7	112.4	112.5	89.01	89.01	-12,816.9	-1,144.9	840.0	615.1	224.88	3.735
23,000.0	10,069.5	23,096.2	10,055.2	113.3	113.3	89.01	89.01	-12,916.9	-1,144.9	840.0	613.4	226.59	3.707
23,100.0	10,069.0	23,196.2	10,054.7	114.1	114.2	89.00	89.00	-13,016.9	-1,144.8	840.0	611.7	228.30	3.679
23,200.0	10,068.6	23,296.2	10,054.3	115.0	115.1	89.00	89.00	-13,116.9	-1,144.7	840.0	609.9	230.01	3.652

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9759-MWD+IFR1+FDIR					Rule Assigned:				Offset Well Error:		3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
23,300.0	10,068.2	23,396.2	10,053.8	115.8	115.9	89.00	-13,216.9	-1,144.6	840.0	608.2	231.72	3.625		
23,400.0	10,067.8	23,496.2	10,053.4	116.7	116.8	89.00	-13,316.9	-1,144.6	840.0	606.5	233.43	3.598		
23,500.0	10,067.3	23,596.2	10,052.9	117.6	117.6	88.99	-13,416.9	-1,144.5	840.0	604.8	235.14	3.572		
23,600.0	10,066.9	23,696.2	10,052.4	118.4	118.5	88.99	-13,516.9	-1,144.4	840.0	603.1	236.85	3.546		
23,700.0	10,066.5	23,796.2	10,052.0	119.3	119.3	88.99	-13,616.9	-1,144.3	840.0	601.4	238.57	3.521		
23,800.0	10,066.0	23,896.2	10,051.5	120.1	120.2	88.99	-13,716.9	-1,144.3	840.0	599.7	240.28	3.496		
23,900.0	10,065.6	23,996.2	10,051.0	121.0	121.0	88.99	-13,816.9	-1,144.2	840.0	598.0	241.99	3.471		
24,000.0	10,065.2	24,096.2	10,050.6	121.8	121.9	88.98	-13,916.9	-1,144.1	840.0	596.3	243.70	3.447		
24,100.0	10,064.8	24,196.2	10,050.1	122.7	122.7	88.98	-14,016.9	-1,144.0	840.0	594.6	245.41	3.423		
24,200.0	10,064.3	24,296.2	10,049.7	123.5	123.6	88.98	-14,116.9	-1,144.0	840.0	592.9	247.12	3.399		
24,300.0	10,063.9	24,396.2	10,049.2	124.4	124.5	88.98	-14,216.9	-1,143.9	840.0	591.2	248.83	3.376		
24,400.0	10,063.5	24,496.2	10,048.7	125.3	125.3	88.97	-14,316.9	-1,143.8	840.0	589.4	250.54	3.353		
24,500.0	10,063.1	24,596.2	10,048.3	126.1	126.2	88.97	-14,416.9	-1,143.8	840.0	587.7	252.25	3.330		
24,600.0	10,062.6	24,696.2	10,047.8	127.0	127.0	88.97	-14,516.9	-1,143.7	840.0	586.0	253.96	3.308		
24,700.0	10,062.2	24,796.2	10,047.3	127.8	127.9	88.97	-14,616.9	-1,143.6	840.0	584.3	255.67	3.285		
24,800.0	10,061.8	24,896.2	10,046.9	128.7	128.7	88.96	-14,716.9	-1,143.5	840.0	582.6	257.39	3.264		
24,900.0	10,061.3	24,996.2	10,046.4	129.5	129.6	88.96	-14,816.9	-1,143.5	840.0	580.9	259.10	3.242		
25,000.0	10,060.9	25,096.2	10,046.0	130.4	130.4	88.96	-14,916.9	-1,143.4	840.0	579.2	260.81	3.221		
25,100.0	10,060.5	25,196.2	10,045.5	131.3	131.3	88.96	-15,016.9	-1,143.3	840.0	577.5	262.52	3.200		
25,200.0	10,060.1	25,296.2	10,045.0	132.1	132.2	88.96	-15,116.9	-1,143.2	840.0	575.8	264.23	3.179		
25,300.0	10,059.6	25,396.2	10,044.6	133.0	133.0	88.95	-15,216.9	-1,143.2	840.0	574.1	265.94	3.159		
25,400.0	10,059.2	25,496.2	10,044.1	133.8	133.9	88.95	-15,316.9	-1,143.1	840.0	572.4	267.66	3.138		
25,500.0	10,058.8	25,596.2	10,043.7	134.7	134.7	88.95	-15,416.9	-1,143.0	840.0	570.6	269.37	3.118		
25,600.0	10,058.3	25,696.2	10,043.2	135.5	135.6	88.95	-15,516.9	-1,142.9	840.0	568.9	271.08	3.099		
25,601.3	10,058.3	25,697.5	10,043.2	135.5	135.6	88.95	-15,518.1	-1,142.9	840.0	568.9	271.10	3.099		
25,678.8	10,058.0	25,738.0	10,043.0	136.2	135.9	88.95	-15,558.7	-1,142.9	840.8	569.1	271.74	3.094 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	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	0.8	0.8	3.0	3.0	52.02	45.2	57.9	73.5				
100.0	100.0	100.8	100.8	3.0	3.0	52.02	45.2	57.9	73.5	67.5	6.00	12.241	
200.0	200.0	200.8	200.8	3.0	3.0	52.02	45.2	57.9	73.5	67.4	6.01	12.230	
300.0	300.0	300.8	300.8	3.0	3.0	52.02	45.2	57.9	73.5	67.4	6.02	12.205	
400.0	400.0	400.8	400.8	3.0	3.0	52.02	45.2	57.9	73.5	67.4	6.04	12.168	
500.0	500.0	500.8	500.8	3.1	3.1	52.02	45.2	57.9	73.5	67.4	6.06	12.119	
600.0	600.0	600.8	600.8	3.1	3.1	52.02	45.2	57.9	73.5	67.4	6.09	12.057	
700.0	700.0	700.8	700.8	3.1	3.1	52.02	45.2	57.9	73.5	67.3	6.13	11.985	
800.0	800.0	800.8	800.8	3.2	3.2	52.02	45.2	57.9	73.5	67.3	6.17	11.901	
900.0	900.0	900.8	900.8	3.2	3.2	52.02	45.2	57.9	73.5	67.2	6.22	11.808	
1,000.0	1,000.0	1,000.8	1,000.8	3.2	3.2	52.02	45.2	57.9	73.5	67.2	6.28	11.705	
1,100.0	1,100.0	1,100.8	1,100.8	3.3	3.3	52.02	45.2	57.9	73.5	67.1	6.34	11.594	
1,200.0	1,200.0	1,200.8	1,200.8	3.4	3.4	52.02	45.2	57.9	73.5	67.1	6.40	11.475	
1,300.0	1,300.0	1,300.8	1,300.8	3.4	3.4	52.02	45.2	57.9	73.5	67.0	6.47	11.349	
1,400.0	1,400.0	1,400.8	1,400.8	3.5	3.5	52.02	45.2	57.9	73.5	66.9	6.55	11.217	
1,500.0	1,500.0	1,500.8	1,500.8	3.5	3.5	52.02	45.2	57.9	73.5	66.8	6.63	11.080	
1,600.0	1,600.0	1,600.8	1,600.8	3.6	3.6	52.02	45.2	57.9	73.5	66.7	6.72	10.939	
1,700.0	1,700.0	1,700.8	1,700.8	3.7	3.7	52.02	45.2	57.9	73.5	66.6	6.81	10.794	
1,800.0	1,800.0	1,800.8	1,800.8	3.8	3.8	52.02	45.2	57.9	73.5	66.6	6.90	10.645	
1,900.0	1,900.0	1,900.8	1,900.8	3.9	3.9	52.02	45.2	57.9	73.5	66.5	7.00	10.495	
1,916.4	1,916.4	1,917.2	1,917.2	3.9	3.9	52.02	45.2	57.9	73.5	66.4	7.02	10.470 CC	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	52.02	45.2	57.9	73.5	66.4	7.10	10.344 ES, SF	
2,100.0	2,100.0	2,098.5	2,098.5	4.0	4.0	52.61	45.5	59.6	75.0	67.8	7.20	10.422	
2,200.0	2,200.0	2,196.0	2,195.9	4.1	4.0	54.22	46.5	64.5	79.6	72.4	7.27	10.954	
2,300.0	2,300.0	2,293.1	2,292.5	4.2	4.1	56.51	48.0	72.6	87.4	80.1	7.32	11.942	
2,400.0	2,400.0	2,389.4	2,388.2	4.3	4.1	59.09	50.2	83.8	98.5	91.2	7.36	13.383	
2,500.0	2,500.0	2,488.1	2,486.0	4.4	4.2	61.51	52.8	97.3	111.7	104.3	7.42	15.059	
2,600.0	2,600.0	2,586.9	2,583.8	4.5	4.2	135.12	55.4	110.8	126.3	118.8	7.45	16.946	
2,700.0	2,699.8	2,685.2	2,681.1	4.5	4.3	137.81	58.0	124.2	143.6	136.1	7.46	19.243	
2,800.0	2,799.5	2,782.8	2,777.7	4.6	4.3	140.62	60.6	137.6	163.8	156.3	7.48	21.900	
2,900.0	2,898.9	2,880.0	2,874.0	4.6	4.4	143.36	63.1	150.9	185.8	178.2	7.52	24.701	
3,000.0	2,998.4	2,977.2	2,970.3	4.7	4.5	145.51	65.7	164.1	208.0	200.5	7.59	27.424	
3,100.0	3,097.8	3,074.4	3,066.6	4.8	4.5	147.25	68.3	177.4	230.5	222.9	7.67	30.058	
3,200.0	3,197.3	3,171.6	3,162.8	4.8	4.6	148.68	70.8	190.7	253.2	245.4	7.77	32.593	
3,300.0	3,296.7	3,268.9	3,259.1	4.9	4.7	149.88	73.4	204.0	276.0	268.1	7.88	35.026	
3,400.0	3,396.2	3,366.1	3,355.4	5.0	4.8	150.89	76.0	217.3	298.9	290.9	8.00	37.355	
3,500.0	3,495.6	3,463.3	3,451.6	5.0	4.8	151.76	78.5	230.6	321.9	313.7	8.13	39.580	
3,600.0	3,595.1	3,560.5	3,547.9	5.1	4.9	152.51	81.1	243.9	344.9	336.6	8.27	41.703	
3,700.0	3,694.5	3,657.7	3,644.2	5.2	5.0	153.17	83.7	257.1	368.0	359.5	8.42	43.725	
3,800.0	3,794.0	3,755.0	3,740.5	5.3	5.1	153.75	86.2	270.4	391.1	382.5	8.57	45.650	
3,900.0	3,893.4	3,852.2	3,836.7	5.4	5.2	154.27	88.8	283.7	414.2	405.5	8.72	47.481	
4,000.0	3,992.9	3,949.4	3,933.0	5.4	5.3	154.73	91.4	297.0	437.4	428.5	8.89	49.220	
4,100.0	4,092.3	4,046.6	4,029.3	5.5	5.4	155.15	93.9	310.3	460.6	451.5	9.05	50.872	
4,200.0	4,191.8	4,143.8	4,125.6	5.6	5.5	155.52	96.5	323.6	483.8	474.6	9.23	52.440	
4,300.0	4,291.2	4,241.0	4,221.8	5.7	5.5	155.86	99.0	336.9	507.1	497.7	9.40	53.928	
4,400.0	4,390.7	4,338.3	4,318.1	5.8	5.6	156.17	101.6	350.1	530.3	520.7	9.58	55.341	
4,500.0	4,490.1	4,435.5	4,414.4	5.9	5.7	156.46	104.2	363.4	553.6	543.8	9.77	56.681	
4,600.0	4,589.6	4,532.7	4,510.7	6.0	5.8	156.72	106.7	376.7	576.9	566.9	9.95	57.953	
4,700.0	4,689.0	4,629.9	4,606.9	6.1	5.9	156.96	109.3	390.0	600.2	590.0	10.14	59.159	
4,800.0	4,788.5	4,727.1	4,703.2	6.2	6.0	157.19	111.9	403.3	623.5	613.1	10.34	60.305	
4,900.0	4,887.9	4,824.4	4,799.5	6.3	6.1	157.39	114.4	416.6	646.8	636.2	10.54	61.392	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	Offset	Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,000.0	4,987.4	4,921.6	4,895.7	6.4	6.2	157.59	117.0	429.9	670.1	659.4	10.73	62.423	
5,100.0	5,086.9	5,018.8	4,992.0	6.5	6.4	157.77	119.6	443.1	693.4	682.5	10.94	63.403	
5,200.0	5,186.3	5,116.0	5,088.3	6.6	6.5	157.94	122.1	456.4	716.8	705.6	11.14	64.334	
5,300.0	5,285.8	5,213.2	5,184.6	6.7	6.6	158.09	124.7	469.7	740.1	728.7	11.35	65.218	
5,400.0	5,385.2	5,310.5	5,280.8	6.8	6.7	158.24	127.3	483.0	763.4	751.9	11.56	66.058	
5,500.0	5,484.7	5,407.7	5,377.1	6.9	6.8	158.38	129.8	496.3	786.8	775.0	11.77	66.856	
5,600.0	5,584.1	5,504.9	5,473.4	7.0	6.9	158.51	132.4	509.6	810.1	798.1	11.98	67.616	
5,700.0	5,683.6	5,602.1	5,569.7	7.1	7.0	158.64	135.0	522.8	833.5	821.3	12.20	68.338	
5,800.0	5,783.0	5,699.3	5,665.9	7.2	7.1	158.75	137.5	536.1	856.8	844.4	12.41	69.025	
5,900.0	5,882.5	5,796.6	5,762.2	7.3	7.2	158.87	140.1	549.4	880.2	867.6	12.63	69.679	
6,000.0	5,981.9	5,893.8	5,858.5	7.4	7.3	158.97	142.6	562.7	903.6	890.7	12.85	70.302	
6,100.0	6,081.4	5,991.0	5,954.8	7.6	7.5	159.07	145.2	576.0	926.9	913.9	13.07	70.896	
6,200.0	6,180.8	6,088.2	6,051.0	7.7	7.6	159.17	147.8	589.3	950.3	937.0	13.30	71.461	
6,300.0	6,280.3	6,185.4	6,147.3	7.8	7.7	159.26	150.3	602.6	973.7	960.1	13.52	72.000	
6,400.0	6,379.7	6,282.7	6,243.6	7.9	7.8	159.34	152.9	615.8	997.0	983.3	13.75	72.514	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 (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	0.6	0.6	3.0	3.0	89.81	0.2	60.0	60.0					
100.0	100.0	100.6	100.6	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.00	10.000		
200.0	200.0	200.6	200.6	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.00	9.995		
300.0	300.0	300.6	300.6	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.01	9.985		
400.0	400.0	400.6	400.6	3.0	3.0	89.81	0.2	60.0	60.0	54.0	6.02	9.969		
500.0	500.0	500.6	500.6	3.1	3.1	89.81	0.2	60.0	60.0	54.0	6.03	9.949		
600.0	600.0	600.6	600.6	3.1	3.1	89.81	0.2	60.0	60.0	54.0	6.05	9.923		
700.0	700.0	700.6	700.6	3.1	3.1	89.81	0.2	60.0	60.0	53.9	6.07	9.892		
800.0	800.0	800.6	800.6	3.2	3.2	89.81	0.2	60.0	60.0	53.9	6.09	9.856		
900.0	900.0	900.6	900.6	3.2	3.2	89.81	0.2	60.0	60.0	53.9	6.11	9.815		
1,000.0	1,000.0	1,000.6	1,000.6	3.2	3.2	89.81	0.2	60.0	60.0	53.9	6.14	9.770		
1,100.0	1,100.0	1,100.6	1,100.6	3.3	3.3	89.81	0.2	60.0	60.0	53.8	6.17	9.721		
1,200.0	1,200.0	1,200.6	1,200.6	3.4	3.4	89.81	0.2	60.0	60.0	53.8	6.21	9.667		
1,300.0	1,300.0	1,300.6	1,300.6	3.4	3.4	89.81	0.2	60.0	60.0	53.8	6.24	9.609		
1,400.0	1,400.0	1,400.6	1,400.6	3.5	3.5	89.81	0.2	60.0	60.0	53.7	6.28	9.548		
1,500.0	1,500.0	1,500.6	1,500.6	3.5	3.5	89.81	0.2	60.0	60.0	53.7	6.33	9.483		
1,600.0	1,600.0	1,600.6	1,600.6	3.6	3.6	89.81	0.2	60.0	60.0	53.6	6.37	9.415		
1,700.0	1,700.0	1,700.6	1,700.6	3.7	3.7	89.81	0.2	60.0	60.0	53.6	6.42	9.344		
1,800.0	1,800.0	1,800.6	1,800.6	3.8	3.8	89.81	0.2	60.0	60.0	53.5	6.47	9.271		
1,900.0	1,900.0	1,900.6	1,900.6	3.9	3.9	89.81	0.2	60.0	60.0	53.5	6.53	9.194		
2,000.0	2,000.0	2,000.6	2,000.6	3.9	3.9	89.81	0.2	60.0	60.0	53.4	6.58	9.116		
2,100.0	2,100.0	2,100.6	2,100.6	4.0	4.0	89.81	0.2	60.0	60.0	53.4	6.64	9.036		
2,200.0	2,200.0	2,200.6	2,200.6	4.1	4.1	89.81	0.2	60.0	60.0	53.3	6.70	8.953		
2,300.0	2,300.0	2,300.6	2,300.6	4.2	4.2	89.81	0.2	60.0	60.0	53.2	6.76	8.869		
2,400.0	2,400.0	2,400.6	2,400.6	4.3	4.3	89.81	0.2	60.0	60.0	53.2	6.83	8.784		
2,416.5	2,416.5	2,417.1	2,417.1	4.3	4.3	89.81	0.2	60.0	60.0	53.2	6.84	8.770 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	89.81	0.2	60.0	60.0	53.1	6.90	8.699 ES		
2,600.0	2,600.0	2,598.8	2,598.7	4.5	4.5	160.78	1.1	61.4	63.1	56.1	6.97	9.057		
2,700.0	2,699.8	2,696.4	2,696.2	4.5	4.5	159.90	3.9	65.6	72.4	65.3	7.04	10.277		
2,800.0	2,799.5	2,794.0	2,793.5	4.6	4.6	158.93	8.3	72.3	87.5	80.4	7.13	12.277		
2,900.0	2,898.9	2,892.5	2,891.6	4.6	4.7	158.53	13.0	79.5	104.7	97.5	7.22	14.499		
3,000.0	2,998.4	2,991.0	2,989.8	4.7	4.8	158.25	17.7	86.7	121.9	114.5	7.32	16.651		
3,100.0	3,097.8	3,089.5	3,087.9	4.8	4.8	158.03	22.4	93.9	139.1	131.6	7.42	18.730		
3,200.0	3,197.3	3,188.0	3,186.1	4.8	4.9	157.86	27.1	101.1	156.2	148.7	7.54	20.733		
3,300.0	3,296.7	3,286.6	3,284.2	4.9	5.0	157.73	31.8	108.3	173.4	165.8	7.65	22.661		
3,400.0	3,396.2	3,385.1	3,382.3	5.0	5.1	157.62	36.5	115.4	190.6	182.8	7.78	24.513		
3,500.0	3,495.6	3,483.6	3,480.5	5.0	5.1	157.52	41.2	122.6	207.8	199.9	7.90	26.289		
3,600.0	3,595.1	3,582.1	3,578.6	5.1	5.2	157.45	45.9	129.8	225.0	217.0	8.04	27.990		
3,700.0	3,694.5	3,680.6	3,676.7	5.2	5.3	157.38	50.6	137.0	242.2	234.0	8.18	29.617		
3,800.0	3,794.0	3,779.1	3,774.9	5.3	5.4	157.32	55.3	144.2	259.4	251.0	8.32	31.171		
3,900.0	3,893.4	3,877.6	3,873.0	5.4	5.5	157.27	60.0	151.4	276.6	268.1	8.47	32.655		
4,000.0	3,992.9	3,976.1	3,971.1	5.4	5.6	157.22	64.7	158.5	293.7	285.1	8.62	34.071		
4,100.0	4,092.3	4,074.6	4,069.3	5.5	5.7	157.18	69.4	165.7	310.9	302.2	8.78	35.420		
4,200.0	4,191.8	4,173.2	4,167.4	5.6	5.8	157.15	74.1	172.9	328.1	319.2	8.94	36.706		
4,300.0	4,291.2	4,271.7	4,265.6	5.7	5.9	157.12	78.8	180.1	345.3	336.2	9.10	37.930		
4,400.0	4,390.7	4,370.2	4,363.7	5.8	6.0	157.09	83.5	187.3	362.5	353.2	9.27	39.095		
4,500.0	4,490.1	4,468.7	4,461.8	5.9	6.1	157.06	88.2	194.5	379.7	370.3	9.44	40.205		
4,600.0	4,589.6	4,567.2	4,560.0	6.0	6.2	157.04	92.9	201.7	396.9	387.3	9.62	41.260		
4,700.0	4,689.0	4,665.7	4,658.1	6.1	6.3	157.01	97.6	208.8	414.1	404.3	9.80	42.264		
4,800.0	4,788.5	4,764.2	4,756.2	6.2	6.4	156.99	102.3	216.0	431.3	421.3	9.98	43.219		
4,900.0	4,887.9	4,862.7	4,854.4	6.3	6.5	156.97	107.0	223.2	448.5	438.3	10.16	44.128		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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			
5,000.0	4,987.4	4,961.2	4,952.5	6.4	6.6	156.96	111.7	230.4	465.7	455.3	10.35	44.992			
5,100.0	5,086.9	5,059.8	5,050.6	6.5	6.7	156.94	116.4	237.6	482.8	472.3	10.54	45.815			
5,200.0	5,186.3	5,158.3	5,148.8	6.6	6.8	156.92	121.1	244.8	500.0	489.3	10.73	46.597			
5,300.0	5,285.8	5,256.8	5,246.9	6.7	6.9	156.91	125.8	251.9	517.2	506.3	10.93	47.342			
5,400.0	5,385.2	5,355.3	5,345.1	6.8	7.0	156.90	130.5	259.1	534.4	523.3	11.12	48.051			
5,500.0	5,484.7	5,453.8	5,443.2	6.9	7.1	156.89	135.2	266.3	551.6	540.3	11.32	48.726			
5,600.0	5,584.1	5,552.3	5,541.3	7.0	7.2	156.87	139.9	273.5	568.8	557.3	11.52	49.368			
5,700.0	5,683.6	5,650.8	5,639.5	7.1	7.3	156.86	144.6	280.7	586.0	574.3	11.72	49.980			
5,800.0	5,783.0	5,749.3	5,737.6	7.2	7.4	156.85	149.3	287.9	603.2	591.3	11.93	50.563			
5,900.0	5,882.5	5,847.8	5,835.7	7.3	7.5	156.84	154.0	295.1	620.4	608.2	12.14	51.119			
6,000.0	5,981.9	5,946.4	5,933.9	7.4	7.7	156.83	158.7	302.2	637.6	625.2	12.34	51.648			
6,100.0	6,081.4	6,044.9	6,032.0	7.6	7.8	156.82	163.4	309.4	654.8	642.2	12.55	52.153			
6,200.0	6,180.8	6,152.6	6,139.3	7.7	7.9	156.84	168.2	316.7	671.4	658.6	12.76	52.610			
6,300.0	6,280.3	6,262.9	6,249.4	7.8	8.0	156.95	171.9	322.4	686.4	673.4	12.97	52.923			
6,400.0	6,379.7	6,373.7	6,360.1	7.9	8.1	157.13	174.5	326.4	699.8	686.6	13.18	53.093			
6,500.0	6,479.2	6,484.9	6,471.3	8.0	8.3	157.40	175.9	328.6	711.4	698.0	13.39	53.119			
6,600.0	6,578.6	6,592.8	6,579.2	8.1	8.4	157.72	176.2	329.0	721.5	707.9	13.58	53.146			
6,700.0	6,678.1	6,692.2	6,678.7	8.2	8.5	158.03	176.2	329.0	731.2	717.5	13.73	53.238			
6,800.0	6,777.5	6,791.7	6,778.1	8.3	8.6	158.33	176.2	329.0	740.9	727.0	13.89	53.327			
6,900.0	6,877.0	6,891.2	6,877.6	8.5	8.7	158.63	176.2	329.0	750.7	736.6	14.05	53.411			
7,000.0	6,976.4	6,990.6	6,977.0	8.6	8.8	158.92	176.2	329.0	760.4	746.2	14.22	53.492			
7,100.0	7,075.9	7,090.1	7,076.5	8.7	8.9	159.20	176.2	329.0	770.2	755.8	14.38	53.569			
7,200.0	7,175.3	7,189.5	7,175.9	8.8	9.0	159.47	176.2	329.0	780.0	765.4	14.54	53.643			
7,300.0	7,274.8	7,289.0	7,275.4	8.9	9.1	159.73	176.2	329.0	789.8	775.1	14.70	53.713			
7,400.0	7,374.3	7,388.4	7,374.9	9.0	9.3	159.99	176.2	329.0	799.6	784.7	14.87	53.780			
7,500.0	7,473.7	7,487.9	7,474.3	9.2	9.4	160.25	176.2	329.0	809.4	794.4	15.03	53.844			
7,519.8	7,493.4	7,507.6	7,494.0	9.2	9.4	160.30	176.2	329.0	811.4	796.3	15.07	53.857			
7,600.0	7,573.2	7,587.4	7,573.8	9.3	9.5	160.50	176.2	329.0	818.7	803.5	15.20	53.872			
7,700.0	7,672.9	7,687.0	7,673.5	9.4	9.6	160.72	176.2	329.0	826.5	811.1	15.36	53.794			
7,800.0	7,772.7	7,786.8	7,773.3	9.5	9.7	160.89	176.2	329.0	832.6	817.0	15.53	53.612			
7,900.0	7,872.6	7,886.7	7,873.2	9.6	9.8	161.01	176.2	329.0	837.0	821.3	15.69	53.332			
8,000.0	7,972.5	7,986.7	7,973.1	9.7	9.9	161.08	176.2	329.0	839.8	824.0	15.86	52.956			
8,100.0	8,072.5	8,086.7	8,073.1	9.8	10.1	161.11	176.2	329.0	841.0	824.9	16.02	52.482			
8,119.8	8,092.3	8,106.5	8,092.9	9.9	10.1	89.78	176.2	329.0	841.0	825.0	16.05	52.398			
8,200.0	8,172.5	8,186.7	8,173.1	9.9	10.2	89.78	176.2	329.0	841.0	824.9	16.13	52.143			
8,300.0	8,272.5	8,286.7	8,273.1	10.0	10.3	89.78	176.2	329.0	841.0	824.8	16.23	51.826			
8,400.0	8,372.5	8,386.7	8,373.1	10.1	10.4	89.78	176.2	329.0	841.0	824.7	16.33	51.511			
8,500.0	8,472.5	8,486.7	8,473.1	10.2	10.5	89.78	176.2	329.0	841.0	824.6	16.43	51.198			
8,600.0	8,572.5	8,586.7	8,573.1	10.3	10.6	89.78	176.2	329.0	841.0	824.5	16.53	50.887			
8,700.0	8,672.5	8,686.7	8,673.1	10.5	10.8	89.78	176.2	329.0	841.0	824.4	16.63	50.578			
8,800.0	8,772.5	8,786.7	8,773.1	10.6	10.9	89.78	176.2	329.0	841.0	824.3	16.73	50.271			
8,900.0	8,872.5	8,886.7	8,873.1	10.7	11.0	89.78	176.2	329.0	841.0	824.2	16.83	49.967			
9,000.0	8,972.5	8,986.7	8,973.1	10.8	11.1	89.78	176.2	329.0	841.0	824.1	16.93	49.664			
9,100.0	9,072.5	9,086.7	9,073.1	10.9	11.2	89.78	176.2	329.0	841.0	824.0	17.04	49.364			
9,200.0	9,172.5	9,186.7	9,173.1	11.0	11.3	89.78	176.2	329.0	841.0	823.9	17.14	49.065			
9,300.0	9,272.5	9,286.7	9,273.1	11.1	11.5	89.78	176.2	329.0	841.0	823.8	17.24	48.769			
9,400.0	9,372.5	9,386.7	9,373.1	11.2	11.6	89.78	176.2	329.0	841.0	823.7	17.35	48.475			
9,500.0	9,472.5	9,486.7	9,473.1	11.3	11.7	89.78	176.2	329.0	841.0	823.6	17.45	48.183			
9,577.5	9,550.0	9,564.2	9,550.6	11.3	11.8	89.78	176.2	329.0	841.0	823.5	17.51	48.038			
9,600.0	9,572.5	9,586.5	9,572.9	11.3	11.8	-87.57	176.2	329.0	841.0	823.5	17.52	48.010			
9,650.0	9,622.3	9,633.6	9,620.0	11.3	11.8	-87.70	174.0	329.1	840.9	823.4	17.53	47.962			

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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:		Warning	
Depth	Depth	Depth	Depth	Depth	Depth	Depth	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor
										(usft)	(usft)	(usft)	
9,700.0	9,671.6	9,680.8	9,666.8	11.4	11.8	-87.84		168.0	329.4	840.8	823.3	17.56	47.893
9,750.0	9,719.9	9,728.3	9,713.2	11.4	11.8	-88.00		158.1	329.8	840.7	823.2	17.59	47.798
9,800.0	9,766.9	9,775.9	9,758.7	11.4	11.8	-88.17		144.3	330.5	840.7	823.0	17.63	47.673
9,850.0	9,812.3	9,823.7	9,803.2	11.4	11.9	-88.36		126.7	331.3	840.6	822.9	17.69	47.514
9,900.0	9,855.7	9,871.7	9,846.1	11.5	11.9	-88.56		105.4	332.3	840.5	822.7	17.76	47.314
9,950.0	9,896.8	9,919.9	9,887.4	11.5	11.9	-88.77		80.4	333.5	840.4	822.6	17.86	47.065
10,000.0	9,935.2	9,968.4	9,926.6	11.6	12.0	-88.99		51.9	334.8	840.4	822.4	17.97	46.760
10,050.0	9,970.7	10,017.2	9,963.4	11.6	12.0	-89.22		20.0	336.3	840.3	822.2	18.11	46.391
10,100.0	10,003.0	10,066.3	9,997.6	11.7	12.1	-89.45		-15.1	337.9	840.3	822.0	18.29	45.952
10,150.0	10,031.9	10,115.6	10,028.8	11.8	12.1	-89.69		-53.2	339.7	840.2	821.7	18.49	45.441
10,200.0	10,057.1	10,165.2	10,056.8	11.8	12.2	-89.93		-94.2	341.6	840.2	821.5	18.73	44.857
10,219.9	10,066.0	10,185.1	10,067.0	11.9	12.2	-90.03		-111.2	342.4	840.2	821.4	18.84	44.599
10,250.0	10,078.4	10,215.2	10,081.3	11.9	12.3	-90.17		-137.6	343.7	840.2	821.2	19.01	44.203
10,300.0	10,095.7	10,265.4	10,102.0	12.0	12.3	-90.42		-183.4	345.8	840.2	820.9	19.32	43.486
10,350.0	10,108.8	10,316.0	10,118.7	12.1	12.4	-90.66		-231.0	348.0	840.3	820.6	19.67	42.716
10,400.0	10,117.7	10,366.9	10,131.2	12.1	12.4	-90.89		-280.3	350.3	840.3	820.3	20.05	41.908
10,450.0	10,122.3	10,418.1	10,139.3	12.2	12.5	-91.12		-330.8	352.7	840.4	819.9	20.46	41.074
10,479.9	10,123.0	10,448.9	10,142.0	12.3	12.5	-91.26		-361.5	354.1	840.4	819.7	20.71	40.573
10,500.0	10,122.9	10,469.6	10,142.9	12.3	12.6	-91.32		-382.1	355.1	840.4	819.5	20.89	40.235
10,600.0	10,122.4	10,570.2	10,142.6	12.5	12.7	-91.34		-482.6	359.8	840.4	818.6	21.82	38.525
10,700.0	10,122.0	10,670.2	10,142.1	12.8	12.8	-91.33		-582.5	364.4	840.4	817.6	22.83	36.810
10,800.0	10,121.6	10,770.2	10,141.7	13.1	13.0	-91.33		-682.4	369.1	840.4	816.5	23.93	35.121
10,900.0	10,121.2	10,870.2	10,141.2	13.5	13.3	-91.32		-782.3	373.8	840.4	815.3	25.10	33.485
11,000.0	10,120.7	10,970.2	10,140.7	14.0	13.6	-91.32		-882.2	378.4	840.4	814.1	26.33	31.920
11,100.0	10,120.3	11,070.2	10,140.2	14.5	14.1	-91.31		-982.0	383.1	840.4	812.8	27.61	30.436
11,200.0	10,119.9	11,170.2	10,139.7	15.1	14.6	-91.31		-1,081.9	387.8	840.4	811.5	28.94	29.037
11,300.0	10,119.5	11,270.2	10,139.2	15.8	15.2	-91.31		-1,181.8	392.4	840.4	810.1	30.31	27.725
11,400.0	10,119.0	11,370.2	10,138.7	16.4	15.8	-91.30		-1,281.7	397.1	840.4	808.7	31.72	26.497
11,500.0	10,118.6	11,470.2	10,138.2	17.1	16.5	-91.30		-1,381.6	401.8	840.4	807.2	33.15	25.350
11,600.0	10,118.2	11,570.2	10,137.7	17.8	17.2	-91.29		-1,481.5	406.4	840.4	805.8	34.61	24.279
11,700.0	10,117.8	11,670.2	10,137.2	18.5	17.9	-91.29		-1,581.4	411.1	840.4	804.3	36.10	23.280
11,800.0	10,117.3	11,770.2	10,136.7	19.2	18.6	-91.28		-1,681.3	415.8	840.4	802.8	37.60	22.347
11,900.0	10,116.9	11,870.2	10,136.2	20.0	19.4	-91.28		-1,781.2	420.4	840.4	801.2	39.13	21.477
12,000.0	10,116.5	11,970.2	10,135.8	20.7	20.1	-91.27		-1,881.0	425.1	840.4	799.7	40.67	20.663
12,100.0	10,116.0	12,070.2	10,135.3	21.5	20.9	-91.27		-1,980.9	429.8	840.3	798.1	42.22	19.902
12,200.0	10,115.6	12,170.2	10,134.8	22.3	21.7	-91.27		-2,080.8	434.4	840.3	796.6	43.79	19.190
12,300.0	10,115.2	12,270.2	10,134.3	23.0	22.4	-91.26		-2,180.7	439.1	840.3	795.0	45.37	18.522
12,400.0	10,114.8	12,370.2	10,133.8	23.8	23.2	-91.26		-2,280.6	443.8	840.3	793.4	46.96	17.895
12,500.0	10,114.3	12,470.2	10,133.3	24.6	24.0	-91.25		-2,380.5	448.4	840.3	791.8	48.56	17.305
12,600.0	10,113.9	12,570.2	10,132.8	25.4	24.8	-91.25		-2,480.4	453.1	840.3	790.2	50.17	16.751
12,700.0	10,113.5	12,670.2	10,132.3	26.2	25.6	-91.24		-2,580.3	457.8	840.3	788.5	51.78	16.228
12,800.0	10,113.1	12,770.2	10,131.8	27.0	26.5	-91.24		-2,680.2	462.4	840.3	786.9	53.40	15.735
12,900.0	10,112.6	12,870.2	10,131.3	27.8	27.3	-91.23		-2,780.1	467.1	840.3	785.3	55.03	15.270
13,000.0	10,112.2	12,970.2	10,130.8	28.6	28.1	-91.23		-2,879.9	471.8	840.3	783.6	56.67	14.829
13,100.0	10,111.8	13,070.2	10,130.4	29.4	28.9	-91.23		-2,979.8	476.4	840.3	782.0	58.31	14.412
13,200.0	10,111.4	13,170.2	10,129.9	30.3	29.7	-91.22		-3,079.7	481.1	840.3	780.3	59.95	14.017
13,300.0	10,110.9	13,270.2	10,129.4	31.1	30.6	-91.22		-3,179.6	485.7	840.3	778.7	61.60	13.641
13,400.0	10,110.5	13,370.2	10,128.9	31.9	31.4	-91.21		-3,279.5	490.4	840.3	777.0	63.25	13.285
13,500.0	10,110.1	13,470.2	10,128.4	32.7	32.2	-91.21		-3,379.4	495.1	840.3	775.4	64.91	12.945
13,600.0	10,109.7	13,570.2	10,127.9	33.6	33.0	-91.20		-3,479.3	499.7	840.3	773.7	66.57	12.622
13,700.0	10,109.2	13,670.2	10,127.4	34.4	33.9	-91.20		-3,579.2	504.4	840.3	772.0	68.23	12.315

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)					
13,800.0	10,108.8	13,770.2	10,126.9	35.2	34.7	-91.19	-3,679.1	509.1	840.3	770.4	69.90	12.021	
13,900.0	10,108.4	13,870.2	10,126.4	36.0	35.5	-91.19	-3,779.0	513.7	840.3	768.7	71.57	11.740	
14,000.0	10,107.9	13,970.2	10,125.9	36.9	36.4	-91.19	-3,878.8	518.4	840.2	767.0	73.24	11.472	
14,100.0	10,107.5	14,070.2	10,125.4	37.7	37.2	-91.18	-3,978.7	523.1	840.2	765.3	74.92	11.216	
14,200.0	10,107.1	14,170.2	10,124.9	38.6	38.1	-91.18	-4,078.6	527.7	840.2	763.6	76.59	10.970	
14,300.0	10,106.7	14,270.2	10,124.5	39.4	38.9	-91.17	-4,178.5	532.4	840.2	762.0	78.27	10.735	
14,400.0	10,106.2	14,370.2	10,124.0	40.2	39.7	-91.17	-4,278.4	537.1	840.2	760.3	79.95	10.509	
14,500.0	10,105.8	14,470.2	10,123.5	41.1	40.6	-91.16	-4,378.3	541.7	840.2	758.6	81.64	10.292	
14,600.0	10,105.4	14,570.2	10,123.0	41.9	41.4	-91.16	-4,478.2	546.4	840.2	756.9	83.32	10.084	
14,700.0	10,105.0	14,670.2	10,122.5	42.7	42.3	-91.15	-4,578.1	551.1	840.2	755.2	85.01	9.884	
14,800.0	10,104.5	14,770.2	10,122.0	43.6	43.1	-91.15	-4,678.0	555.7	840.2	753.5	86.70	9.691	
14,900.0	10,104.1	14,870.2	10,121.5	44.4	44.0	-91.15	-4,777.9	560.4	840.2	751.8	88.39	9.506	
15,000.0	10,103.7	14,970.2	10,121.0	45.3	44.8	-91.14	-4,877.7	565.1	840.2	750.1	90.08	9.327	
15,100.0	10,103.3	15,070.2	10,120.5	46.1	45.7	-91.14	-4,977.6	569.7	840.2	748.4	91.77	9.155	
15,183.4	10,102.9	15,153.6	10,120.1	46.8	46.4	-91.13	-5,060.9	573.6	840.2	747.0	93.18	9.017	
15,183.5	10,102.9	15,153.7	10,120.1	46.8	46.4	-91.13	-5,061.1	573.6	840.2	747.0	93.19	9.016	
15,200.0	10,102.8	15,170.2	10,120.0	47.0	46.5	-91.13	-5,077.5	574.4	840.2	746.8	93.46	8.990	
15,300.0	10,102.4	15,300.9	10,119.4	47.8	47.6	-91.11	-5,208.1	578.6	841.2	745.8	95.36	8.821	
15,341.6	10,102.2	15,359.8	10,119.1	48.2	48.1	-91.11	-5,267.0	578.6	841.2	745.1	96.13	8.752	
15,346.3	10,102.2	15,366.4	10,119.1	48.2	48.2	-91.11	-5,273.6	578.5	841.2	745.0	96.21	8.744	
15,400.0	10,102.0	15,416.8	10,118.8	48.7	48.6	-91.11	-5,324.0	578.1	841.2	744.1	97.10	8.663	
15,500.0	10,101.5	15,516.8	10,118.3	49.5	49.4	-91.10	-5,424.0	577.2	841.2	742.4	98.79	8.516	
15,600.0	10,101.1	15,616.8	10,117.8	50.3	50.3	-91.10	-5,524.0	576.3	841.2	740.7	100.47	8.373	
15,700.0	10,100.7	15,716.8	10,117.3	51.2	51.1	-91.09	-5,624.0	575.5	841.2	739.0	102.16	8.234	
15,800.0	10,100.3	15,816.8	10,116.8	52.0	52.0	-91.09	-5,724.0	574.6	841.2	737.3	103.84	8.100	
15,900.0	10,099.8	15,916.8	10,116.3	52.9	52.8	-91.08	-5,824.0	573.7	841.1	735.6	105.53	7.970	
16,000.0	10,099.4	16,016.8	10,115.9	53.7	53.6	-91.08	-5,924.0	572.9	841.1	733.9	107.22	7.845	
16,100.0	10,099.0	16,116.8	10,115.4	54.5	54.5	-91.07	-6,024.0	572.0	841.1	732.2	108.91	7.723	
16,200.0	10,098.6	16,216.8	10,114.9	55.4	55.3	-91.07	-6,124.0	571.1	841.1	730.5	110.60	7.605	
16,300.0	10,098.1	16,316.8	10,114.4	56.2	56.2	-91.07	-6,224.0	570.2	841.1	728.8	112.29	7.490	
16,400.0	10,097.7	16,416.8	10,113.9	57.1	57.0	-91.06	-6,324.0	569.4	841.0	727.0	113.98	7.379	
16,500.0	10,097.3	16,516.8	10,113.4	57.9	57.9	-91.06	-6,424.0	568.5	841.0	725.3	115.67	7.270	
16,600.0	10,096.8	16,616.8	10,112.9	58.8	58.7	-91.05	-6,524.0	567.6	841.0	723.6	117.37	7.165	
16,700.0	10,096.4	16,716.8	10,112.4	59.6	59.6	-91.05	-6,624.0	566.8	841.0	721.9	119.06	7.063	
16,800.0	10,096.0	16,816.8	10,111.9	60.5	60.4	-91.04	-6,723.9	565.9	840.9	720.2	120.76	6.964	
16,900.0	10,095.6	16,916.8	10,111.4	61.3	61.3	-91.04	-6,823.9	565.0	840.9	718.5	122.45	6.867	
17,000.0	10,095.1	17,016.8	10,110.9	62.1	62.1	-91.03	-6,923.9	564.1	840.9	716.8	124.15	6.773	
17,100.0	10,094.7	17,116.8	10,110.4	63.0	63.0	-91.03	-7,023.9	563.3	840.9	715.0	125.84	6.682	
17,200.0	10,094.3	17,216.8	10,109.9	63.8	63.8	-91.03	-7,123.9	562.4	840.9	713.3	127.54	6.593	
17,300.0	10,093.9	17,316.8	10,109.4	64.7	64.7	-91.02	-7,223.9	561.5	840.8	711.6	129.24	6.506	
17,400.0	10,093.4	17,416.8	10,108.9	65.5	65.5	-91.02	-7,323.9	560.7	840.8	709.9	130.93	6.422	
17,500.0	10,093.0	17,516.8	10,108.4	66.4	66.3	-91.01	-7,423.9	559.8	840.8	708.2	132.63	6.339	
17,600.0	10,092.6	17,616.8	10,108.0	67.2	67.2	-91.01	-7,523.9	558.9	840.8	706.4	134.33	6.259	
17,700.0	10,092.1	17,716.8	10,107.5	68.1	68.0	-91.00	-7,623.9	558.0	840.8	704.7	136.03	6.181	
17,800.0	10,091.7	17,816.8	10,107.0	68.9	68.9	-91.00	-7,723.9	557.2	840.7	703.0	137.73	6.104	
17,900.0	10,091.3	17,916.8	10,106.5	69.8	69.7	-90.99	-7,823.9	556.3	840.7	701.3	139.43	6.030	
18,000.0	10,090.9	18,016.8	10,106.0	70.6	70.6	-90.99	-7,923.9	555.4	840.7	699.6	141.13	5.957	
18,100.0	10,090.4	18,116.8	10,105.5	71.5	71.4	-90.98	-8,023.9	554.6	840.7	697.8	142.83	5.886	
18,200.0	10,090.0	18,216.8	10,105.0	72.3	72.3	-90.98	-8,123.9	553.7	840.7	696.1	144.53	5.816	
18,300.0	10,089.6	18,316.8	10,104.5	73.2	73.1	-90.98	-8,223.9	552.8	840.6	694.4	146.23	5.749	
18,400.0	10,089.2	18,416.8	10,104.0	74.0	74.0	-90.97	-8,323.9	551.9	840.6	692.7	147.93	5.682	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	10,088.7	18,516.8	10,103.5	74.9	74.8	-90.97	-8,423.9	551.1	840.6	691.0	149.64	5.618		
18,600.0	10,088.3	18,616.8	10,103.0	75.7	75.7	-90.96	-8,523.9	550.2	840.6	689.2	151.34	5.554		
18,700.0	10,087.9	18,716.8	10,102.5	76.6	76.6	-90.96	-8,623.8	549.3	840.6	687.5	153.04	5.492		
18,800.0	10,087.4	18,816.8	10,102.0	77.4	77.4	-90.95	-8,723.8	548.4	840.5	685.8	154.74	5.432		
18,900.0	10,087.0	18,916.8	10,101.5	78.3	78.3	-90.95	-8,823.8	547.6	840.5	684.1	156.45	5.373		
19,000.0	10,086.6	19,016.8	10,101.0	79.1	79.1	-90.94	-8,923.8	546.7	840.5	682.3	158.15	5.315		
19,100.0	10,086.2	19,116.8	10,100.6	80.0	80.0	-90.94	-9,023.8	545.8	840.5	680.6	159.85	5.258		
19,200.0	10,085.7	19,216.8	10,100.1	80.8	80.8	-90.94	-9,123.8	545.0	840.4	678.9	161.56	5.202		
19,300.0	10,085.3	19,316.8	10,099.6	81.7	81.7	-90.93	-9,223.8	544.1	840.4	677.2	163.26	5.148		
19,400.0	10,084.9	19,416.8	10,099.1	82.5	82.5	-90.93	-9,323.8	543.2	840.4	675.4	164.97	5.094		
19,500.0	10,084.5	19,516.8	10,098.6	83.4	83.4	-90.92	-9,423.8	542.3	840.4	673.7	166.67	5.042		
19,600.0	10,084.0	19,616.8	10,098.1	84.2	84.2	-90.92	-9,523.8	541.5	840.4	672.0	168.38	4.991		
19,700.0	10,083.6	19,716.8	10,097.6	85.1	85.1	-90.91	-9,623.8	540.6	840.3	670.3	170.08	4.941		
19,800.0	10,083.2	19,816.8	10,097.1	85.9	85.9	-90.91	-9,723.8	539.7	840.3	668.5	171.79	4.892		
19,900.0	10,082.7	19,916.8	10,096.6	86.8	86.8	-90.90	-9,823.8	538.9	840.3	666.8	173.49	4.843		
20,000.0	10,082.3	20,016.8	10,096.1	87.6	87.6	-90.90	-9,923.8	538.0	840.3	665.1	175.20	4.796		
20,100.0	10,081.9	20,116.8	10,095.6	88.5	88.5	-90.89	-10,023.8	537.1	840.3	663.4	176.90	4.750		
20,200.0	10,081.5	20,216.8	10,095.1	89.4	89.3	-90.89	-10,123.8	536.2	840.2	661.6	178.61	4.704		
20,300.0	10,081.0	20,316.8	10,094.6	90.2	90.2	-90.89	-10,223.8	535.4	840.2	659.9	180.31	4.660		
20,400.0	10,080.6	20,416.8	10,094.1	91.1	91.0	-90.88	-10,323.8	534.5	840.2	658.2	182.02	4.616		
20,500.0	10,080.2	20,516.8	10,093.6	91.9	91.9	-90.88	-10,423.8	533.6	840.2	656.4	183.73	4.573		
20,543.7	10,080.0	20,560.5	10,093.4	92.3	92.3	-90.87	-10,467.5	533.2	840.2	655.7	184.47	4.554		
20,570.3	10,079.9	20,582.2	10,093.3	92.5	92.5	-90.88	-10,489.2	533.1	840.1	655.2	184.91	4.543		
20,600.0	10,079.8	20,608.9	10,093.2	92.8	92.7	-90.87	-10,515.8	533.1	840.1	654.7	185.40	4.531		
20,600.9	10,079.8	20,609.7	10,093.2	92.8	92.7	-90.87	-10,516.7	533.1	840.1	654.7	185.42	4.531		
20,700.0	10,079.3	20,708.9	10,092.7	93.6	93.5	-90.87	-10,615.8	533.2	840.1	653.0	187.11	4.490		
20,800.0	10,078.9	20,808.9	10,092.2	94.5	94.4	-90.87	-10,715.8	533.3	840.1	651.2	188.82	4.449		
20,900.0	10,078.5	20,908.9	10,091.7	95.3	95.2	-90.86	-10,815.8	533.3	840.1	649.5	190.53	4.409		
21,000.0	10,078.0	21,008.9	10,091.2	96.2	96.1	-90.86	-10,915.8	533.4	840.1	647.8	192.24	4.370		
21,100.0	10,077.6	21,108.9	10,090.7	97.0	97.0	-90.85	-11,015.8	533.5	840.1	646.1	193.95	4.331		
21,200.0	10,077.2	21,208.9	10,090.2	97.9	97.8	-90.85	-11,115.8	533.5	840.0	644.4	195.66	4.293		
21,300.0	10,076.8	21,308.9	10,089.7	98.7	98.7	-90.84	-11,215.8	533.6	840.0	642.7	197.37	4.256		
21,400.0	10,076.3	21,408.9	10,089.2	99.6	99.5	-90.84	-11,315.8	533.7	840.0	641.0	199.08	4.220		
21,500.0	10,075.9	21,508.9	10,088.8	100.5	100.4	-90.84	-11,415.8	533.8	840.0	639.2	200.79	4.184		
21,600.0	10,075.5	21,608.9	10,088.3	101.3	101.2	-90.83	-11,515.8	533.8	840.0	637.5	202.50	4.148		
21,700.0	10,075.0	21,708.9	10,087.8	102.2	102.1	-90.83	-11,615.8	533.9	840.0	635.8	204.21	4.114		
21,800.0	10,074.6	21,808.9	10,087.3	103.0	102.9	-90.82	-11,715.8	534.0	840.0	634.1	205.92	4.079		
21,900.0	10,074.2	21,908.9	10,086.8	103.9	103.8	-90.82	-11,815.8	534.0	840.0	632.4	207.63	4.046		
22,000.0	10,073.8	22,008.9	10,086.3	104.7	104.7	-90.81	-11,915.8	534.1	840.0	630.7	209.34	4.013		
22,100.0	10,073.3	22,108.9	10,085.8	105.6	105.5	-90.81	-12,015.8	534.2	840.0	628.9	211.05	3.980		
22,200.0	10,072.9	22,208.9	10,085.3	106.4	106.4	-90.81	-12,115.8	534.3	840.0	627.2	212.76	3.948		
22,300.0	10,072.5	22,308.9	10,084.8	107.3	107.2	-90.80	-12,215.8	534.3	840.0	625.5	214.47	3.917		
22,400.0	10,072.0	22,408.9	10,084.3	108.1	108.1	-90.80	-12,315.8	534.4	840.0	623.8	216.18	3.886		
22,500.0	10,071.6	22,508.9	10,083.8	109.0	108.9	-90.79	-12,415.8	534.5	840.0	622.1	217.90	3.855		
22,600.0	10,071.2	22,608.9	10,083.3	109.9	109.8	-90.79	-12,515.8	534.6	840.0	620.4	219.61	3.825		
22,700.0	10,070.8	22,708.9	10,082.8	110.7	110.6	-90.78	-12,615.8	534.6	840.0	618.7	221.32	3.795		
22,800.0	10,070.3	22,808.9	10,082.4	111.6	111.5	-90.78	-12,715.8	534.7	840.0	616.9	223.03	3.766		
22,900.0	10,069.9	22,908.9	10,081.9	112.4	112.4	-90.77	-12,815.8	534.8	840.0	615.2	224.74	3.737		
23,000.0	10,069.5	23,008.9	10,081.4	113.3	113.2	-90.77	-12,915.8	534.8	840.0	613.5	226.45	3.709		
23,100.0	10,069.0	23,108.9	10,080.9	114.1	114.1	-90.77	-13,015.8	534.9	840.0	611.8	228.16	3.681		
23,200.0	10,068.6	23,208.9	10,080.4	115.0	114.9	-90.76	-13,115.8	535.0	839.9	610.1	229.88	3.654		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
23,300.0	10,068.2	23,308.9	10,079.9	115.8	115.8	-90.76	-13,215.8	535.1	839.9	608.4	231.59	3.627			
23,400.0	10,067.8	23,408.9	10,079.4	116.7	116.6	-90.75	-13,315.8	535.1	839.9	606.6	233.30	3.600			
23,500.0	10,067.3	23,508.9	10,078.9	117.6	117.5	-90.75	-13,415.8	535.2	839.9	604.9	235.01	3.574			
23,600.0	10,066.9	23,608.9	10,078.4	118.4	118.3	-90.74	-13,515.8	535.3	839.9	603.2	236.72	3.548			
23,700.0	10,066.5	23,708.9	10,077.9	119.3	119.2	-90.74	-13,615.8	535.3	839.9	601.5	238.44	3.523			
23,800.0	10,066.0	23,808.9	10,077.4	120.1	120.1	-90.74	-13,715.8	535.4	839.9	599.8	240.15	3.497			
23,900.0	10,065.6	23,908.9	10,076.9	121.0	120.9	-90.73	-13,815.8	535.5	839.9	598.1	241.86	3.473			
24,000.0	10,065.2	24,008.9	10,076.4	121.8	121.8	-90.73	-13,915.8	535.6	839.9	596.3	243.57	3.448			
24,100.0	10,064.8	24,108.9	10,076.0	122.7	122.6	-90.72	-14,015.8	535.6	839.9	594.6	245.29	3.424			
24,200.0	10,064.3	24,208.9	10,075.5	123.5	123.5	-90.72	-14,115.8	535.7	839.9	592.9	247.00	3.400			
24,300.0	10,063.9	24,308.9	10,075.0	124.4	124.3	-90.71	-14,215.8	535.8	839.9	591.2	248.71	3.377			
24,400.0	10,063.5	24,408.9	10,074.5	125.3	125.2	-90.71	-14,315.8	535.8	839.9	589.5	250.42	3.354			
24,500.0	10,063.1	24,508.9	10,074.0	126.1	126.1	-90.71	-14,415.8	535.9	839.9	587.7	252.14	3.331			
24,600.0	10,062.6	24,608.9	10,073.5	127.0	126.9	-90.70	-14,515.8	536.0	839.9	586.0	253.85	3.309			
24,700.0	10,062.2	24,708.9	10,073.0	127.8	127.8	-90.70	-14,615.8	536.1	839.9	584.3	255.56	3.286			
24,800.0	10,061.8	24,808.9	10,072.5	128.7	128.6	-90.69	-14,715.8	536.1	839.9	582.6	257.28	3.264			
24,900.0	10,061.3	24,908.9	10,072.0	129.5	129.5	-90.69	-14,815.8	536.2	839.9	580.9	258.99	3.243			
25,000.0	10,060.9	25,008.9	10,071.5	130.4	130.3	-90.68	-14,915.8	536.3	839.9	579.2	260.70	3.222			
25,100.0	10,060.5	25,108.9	10,071.0	131.3	131.2	-90.68	-15,015.8	536.4	839.9	577.4	262.41	3.200			
25,200.0	10,060.1	25,208.9	10,070.5	132.1	132.0	-90.67	-15,115.8	536.4	839.9	575.7	264.13	3.180			
25,300.0	10,059.6	25,308.9	10,070.0	133.0	132.9	-90.67	-15,215.8	536.5	839.8	574.0	265.84	3.159			
25,400.0	10,059.2	25,408.9	10,069.6	133.8	133.8	-90.67	-15,315.8	536.6	839.8	572.3	267.55	3.139			
25,500.0	10,058.8	25,508.9	10,069.1	134.7	134.6	-90.66	-15,415.8	536.6	839.8	570.6	269.27	3.119			
25,600.0	10,058.3	25,608.9	10,068.6	135.5	135.5	-90.66	-15,515.8	536.7	839.8	568.9	270.98	3.099			
25,678.8	10,058.0	25,687.6	10,068.2	136.2	136.2	-90.65	-15,594.5	536.8	839.8	567.5	272.33	3.084 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9814-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	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)	Between Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.2	0.2	3.0	3.0	89.81	0.1	30.0	30.0					
100.0	100.0	100.2	100.2	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	5.000		
200.0	200.0	200.2	200.2	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	4.997		
300.0	300.0	300.2	300.2	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.01	4.992		
400.0	400.0	400.2	400.2	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.02	4.985		
500.0	500.0	500.2	500.2	3.1	3.1	89.81	0.1	30.0	30.0	24.0	6.03	4.974		
600.0	600.0	600.2	600.2	3.1	3.1	89.81	0.1	30.0	30.0	24.0	6.05	4.961		
700.0	700.0	700.2	700.2	3.1	3.1	89.81	0.1	30.0	30.0	23.9	6.07	4.946		
800.0	800.0	800.2	800.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.09	4.928		
900.0	900.0	900.2	900.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.11	4.908		
1,000.0	1,000.0	1,000.2	1,000.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.14	4.885		
1,100.0	1,100.0	1,100.2	1,100.2	3.3	3.3	89.81	0.1	30.0	30.0	23.8	6.17	4.860		
1,200.0	1,200.0	1,200.2	1,200.2	3.4	3.4	89.81	0.1	30.0	30.0	23.8	6.21	4.834		
1,300.0	1,300.0	1,300.2	1,300.2	3.4	3.4	89.81	0.1	30.0	30.0	23.8	6.24	4.805		
1,400.0	1,400.0	1,400.2	1,400.2	3.5	3.5	89.81	0.1	30.0	30.0	23.7	6.28	4.774		
1,500.0	1,500.0	1,500.2	1,500.2	3.5	3.5	89.81	0.1	30.0	30.0	23.7	6.33	4.742		
1,600.0	1,600.0	1,600.2	1,600.2	3.6	3.6	89.81	0.1	30.0	30.0	23.6	6.37	4.708		
1,700.0	1,700.0	1,700.2	1,700.2	3.7	3.7	89.81	0.1	30.0	30.0	23.6	6.42	4.672		
1,800.0	1,800.0	1,800.2	1,800.2	3.8	3.8	89.81	0.1	30.0	30.0	23.5	6.47	4.635		
1,900.0	1,900.0	1,900.2	1,900.2	3.9	3.9	89.81	0.1	30.0	30.0	23.5	6.53	4.597		
2,000.0	2,000.0	2,000.2	2,000.2	3.9	3.9	89.81	0.1	30.0	30.0	23.4	6.58	4.558		
2,100.0	2,100.0	2,100.2	2,100.2	4.0	4.0	89.81	0.1	30.0	30.0	23.4	6.64	4.518		
2,200.0	2,200.0	2,200.2	2,200.2	4.1	4.1	89.81	0.1	30.0	30.0	23.3	6.70	4.477		
2,300.0	2,300.0	2,300.2	2,300.2	4.2	4.2	89.81	0.1	30.0	30.0	23.2	6.76	4.435		
2,400.0	2,400.0	2,400.2	2,400.2	4.3	4.3	89.81	0.1	30.0	30.0	23.2	6.83	4.392		
2,500.0	2,500.0	2,500.2	2,500.2	4.4	4.4	89.81	0.1	30.0	30.0	23.1	6.90	4.349		
2,500.3	2,500.3	2,500.5	2,500.5	4.4	4.4	161.14	0.1	30.0	30.0	23.1	6.90	4.349	CC, ES	
2,600.0	2,600.0	2,600.8	2,600.8	4.5	4.5	159.46	1.6	29.0	30.7	23.7	6.97	4.401		
2,700.0	2,699.8	2,701.3	2,701.1	4.5	4.6	154.89	5.9	26.0	32.8	25.8	7.05	4.654		
2,800.0	2,799.5	2,801.4	2,800.9	4.6	4.7	149.22	12.8	21.3	37.0	29.8	7.16	5.160		
2,900.0	2,898.9	2,901.2	2,900.3	4.6	4.7	145.59	19.9	16.3	42.7	35.4	7.27	5.869		
3,000.0	2,998.4	3,001.0	2,999.7	4.7	4.8	142.83	27.1	11.4	48.5	41.2	7.38	6.577		
3,100.0	3,097.8	3,100.8	3,099.2	4.8	4.9	140.67	34.2	6.4	54.5	47.0	7.48	7.280		
3,200.0	3,197.3	3,200.6	3,198.6	4.8	5.0	138.93	41.4	1.5	60.5	52.9	7.59	7.974		
3,300.0	3,296.7	3,300.4	3,298.0	4.9	5.1	137.51	48.5	-3.5	66.5	58.8	7.69	8.657		
3,400.0	3,396.2	3,400.2	3,397.4	5.0	5.2	136.33	55.7	-8.4	72.6	64.8	7.78	9.328		
3,500.0	3,495.6	3,500.0	3,496.9	5.0	5.3	135.33	62.8	-13.4	78.7	70.8	7.88	9.985		
3,600.0	3,595.1	3,599.8	3,596.3	5.1	5.4	134.47	70.0	-18.3	84.9	76.9	7.99	10.627		
3,700.0	3,694.5	3,699.6	3,695.7	5.2	5.5	133.73	77.1	-23.3	91.0	82.9	8.09	11.253		
3,800.0	3,794.0	3,799.5	3,795.1	5.3	5.6	133.08	84.3	-28.2	97.2	89.0	8.19	11.863		
3,900.0	3,893.4	3,899.3	3,894.6	5.4	5.7	132.51	91.5	-33.2	103.3	95.0	8.30	12.456		
4,000.0	3,992.9	3,999.1	3,994.0	5.4	5.8	132.01	98.6	-38.1	109.5	101.1	8.40	13.032		
4,100.0	4,092.3	4,098.9	4,093.4	5.5	5.9	131.55	105.8	-43.1	115.7	107.2	8.51	13.590		
4,200.0	4,191.8	4,198.7	4,192.8	5.6	6.0	131.15	112.9	-48.0	121.9	113.3	8.63	14.131		
4,300.0	4,291.2	4,298.5	4,292.3	5.7	6.1	130.78	120.1	-53.0	128.1	119.4	8.74	14.655		
4,400.0	4,390.7	4,398.3	4,391.7	5.8	6.2	130.45	127.2	-57.9	134.3	125.4	8.86	15.161		
4,500.0	4,490.1	4,498.1	4,491.1	5.9	6.3	130.15	134.4	-62.8	140.5	131.5	8.98	15.650		
4,600.0	4,589.6	4,597.9	4,590.5	6.0	6.5	129.87	141.5	-67.8	146.7	137.6	9.10	16.121		
4,700.0	4,689.0	4,697.7	4,690.0	6.1	6.6	129.61	148.7	-72.7	152.9	143.7	9.23	16.575		
4,800.0	4,788.5	4,797.5	4,789.4	6.2	6.7	129.38	155.8	-77.7	159.2	149.8	9.35	17.013		
4,900.0	4,887.9	4,897.2	4,888.7	6.3	6.8	129.36	162.5	-82.3	165.4	155.9	9.48	17.447		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9814-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)					
5,000.0	4,987.4	4,996.8	4,988.2	6.4	6.9	129.92	167.8	-85.9	171.7	162.1	9.59	17.904	
5,100.0	5,086.9	5,096.3	5,087.6	6.5	7.0	130.98	171.6	-88.6	178.2	168.5	9.69	18.387	
5,200.0	5,186.3	5,195.7	5,186.9	6.6	7.1	132.51	174.1	-90.3	184.9	175.1	9.79	18.892	
5,300.0	5,285.8	5,294.9	5,286.1	6.7	7.2	134.43	175.1	-91.0	192.0	182.1	9.89	19.408	
5,400.0	5,385.2	5,394.2	5,385.4	6.8	7.3	136.56	175.1	-91.0	199.5	189.4	10.02	19.907	
5,500.0	5,484.7	5,493.7	5,484.9	6.9	7.5	138.54	175.1	-91.0	207.2	197.0	10.16	20.388	
5,600.0	5,584.1	5,593.1	5,584.3	7.0	7.6	140.38	175.1	-91.0	215.2	204.8	10.32	20.853	
5,700.0	5,683.6	5,692.6	5,683.8	7.1	7.7	142.09	175.1	-91.0	223.3	212.8	10.48	21.303	
5,800.0	5,783.0	5,792.0	5,783.2	7.2	7.8	143.67	175.1	-91.0	231.7	221.0	10.66	21.739	
5,900.0	5,882.5	5,891.5	5,882.7	7.3	7.9	145.15	175.1	-91.0	240.2	229.4	10.84	22.161	
6,000.0	5,981.9	5,990.9	5,982.1	7.4	8.1	146.52	175.1	-91.0	248.9	237.8	11.03	22.571	
6,100.0	6,081.4	6,090.4	6,081.6	7.6	8.2	147.80	175.1	-91.0	257.7	246.4	11.22	22.970	
6,200.0	6,180.8	6,189.8	6,181.0	7.7	8.3	149.00	175.1	-91.0	266.6	255.2	11.41	23.357	
6,300.0	6,280.3	6,289.3	6,280.5	7.8	8.4	150.11	175.1	-91.0	275.6	264.0	11.61	23.735	
6,400.0	6,379.7	6,388.7	6,379.9	7.9	8.5	151.16	175.1	-91.0	284.7	272.9	11.81	24.102	
6,500.0	6,479.2	6,488.2	6,479.4	8.0	8.6	152.14	175.1	-91.0	293.9	281.9	12.02	24.461	
6,600.0	6,578.6	6,587.6	6,578.8	8.1	8.8	153.07	175.1	-91.0	303.2	291.0	12.22	24.811	
6,700.0	6,678.1	6,687.1	6,678.3	8.2	8.9	153.93	175.1	-91.0	312.6	300.2	12.43	25.152	
6,800.0	6,777.5	6,786.6	6,777.7	8.3	9.0	154.75	175.1	-91.0	322.0	309.4	12.64	25.485	
6,900.0	6,877.0	6,886.0	6,877.2	8.5	9.1	155.52	175.1	-91.0	331.5	318.7	12.84	25.811	
7,000.0	6,976.4	6,985.5	6,976.6	8.6	9.2	156.25	175.1	-91.0	341.1	328.0	13.05	26.130	
7,100.0	7,075.9	7,084.9	7,076.1	8.7	9.4	156.93	175.1	-91.0	350.7	337.4	13.26	26.441	
7,200.0	7,175.3	7,184.4	7,175.5	8.8	9.5	157.58	175.1	-91.0	360.3	346.8	13.47	26.745	
7,300.0	7,274.8	7,283.8	7,275.0	8.9	9.6	158.20	175.1	-91.0	370.0	356.3	13.68	27.043	
7,400.0	7,374.3	7,383.3	7,374.5	9.0	9.7	158.79	175.1	-91.0	379.7	365.8	13.89	27.334	
7,500.0	7,473.7	7,482.7	7,473.9	9.2	9.9	159.34	175.1	-91.0	389.5	375.4	14.10	27.618	
7,519.8	7,493.4	7,502.4	7,493.6	9.2	9.9	159.45	175.1	-91.0	391.5	377.3	14.15	27.674	
7,600.0	7,573.2	7,582.2	7,573.4	9.3	10.0	159.87	175.1	-91.0	398.8	384.5	14.31	27.865	
7,700.0	7,672.9	7,681.9	7,673.1	9.4	10.1	160.29	175.1	-91.0	406.5	392.0	14.51	28.008	
7,800.0	7,772.7	7,781.7	7,772.9	9.5	10.2	160.61	175.1	-91.0	412.6	397.9	14.71	28.050	
7,900.0	7,872.6	7,881.6	7,872.8	9.6	10.4	160.84	175.1	-91.0	417.0	402.1	14.90	27.995	
8,000.0	7,972.5	7,981.5	7,972.7	9.7	10.5	160.99	175.1	-91.0	419.8	404.7	15.08	27.845	
8,100.0	8,072.5	8,081.5	8,072.7	9.8	10.6	161.04	175.1	-91.0	421.0	405.7	15.25	27.600	
8,119.8	8,092.3	8,101.3	8,092.5	9.9	10.6	89.71	175.1	-91.0	421.0	405.7	15.28	27.553	
8,200.0	8,172.5	8,181.5	8,172.7	9.9	10.7	89.71	175.1	-91.0	421.0	405.6	15.36	27.403	
8,300.0	8,272.5	8,281.5	8,272.7	10.0	10.8	89.71	175.1	-91.0	421.0	405.5	15.47	27.219	
8,400.0	8,372.5	8,381.5	8,372.7	10.1	11.0	89.71	175.1	-91.0	421.0	405.4	15.57	27.035	
8,500.0	8,472.5	8,481.5	8,472.7	10.2	11.1	89.71	175.1	-91.0	421.0	405.3	15.68	26.854	
8,600.0	8,572.5	8,581.5	8,572.7	10.3	11.2	89.71	175.1	-91.0	421.0	405.2	15.78	26.674	
8,700.0	8,672.5	8,681.5	8,672.7	10.5	11.4	89.71	175.1	-91.0	421.0	405.1	15.89	26.495	
8,800.0	8,772.5	8,781.5	8,772.7	10.6	11.5	89.71	175.1	-91.0	421.0	405.0	16.00	26.318	
8,900.0	8,872.5	8,881.5	8,872.7	10.7	11.6	89.71	175.1	-91.0	421.0	404.9	16.10	26.143	
9,000.0	8,972.5	8,981.5	8,972.7	10.8	11.7	89.71	175.1	-91.0	421.0	404.8	16.21	25.969	
9,100.0	9,072.5	9,081.5	9,072.7	10.9	11.9	89.71	175.1	-91.0	421.0	404.7	16.32	25.797	
9,200.0	9,172.5	9,181.5	9,172.7	11.0	12.0	89.71	175.1	-91.0	421.0	404.6	16.43	25.626	
9,300.0	9,272.5	9,281.5	9,272.7	11.1	12.1	89.71	175.1	-91.0	421.0	404.5	16.54	25.457	
9,400.0	9,372.5	9,381.5	9,372.7	11.2	12.2	89.71	175.1	-91.0	421.0	404.4	16.65	25.290	
9,500.0	9,472.5	9,481.5	9,472.7	11.3	12.4	89.71	175.1	-91.0	421.0	404.2	16.76	25.124	
9,577.5	9,550.0	9,559.0	9,550.2	11.3	12.5	89.71	175.1	-91.0	421.0	404.2	16.83	25.018	
9,600.0	9,572.5	9,581.5	9,572.7	11.3	12.5	-87.67	175.1	-91.0	421.0	404.1	16.84	25.001	
9,650.0	9,622.3	9,631.3	9,622.5	11.3	12.5	-88.25	175.1	-91.0	420.8	404.0	16.83	25.012	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 9814-MWD+IFR1+FDIR		Reference Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,700.0	9,671.6	9,680.6	9,671.8	11.4	12.6	-89.40	175.1	-91.0	420.7	403.9	16.77	25.091		
9,719.7	9,690.8	9,699.8	9,691.0	11.4	12.6	-90.00	175.1	-91.0	420.6	403.9	16.73	25.140		
9,750.0	9,719.9	9,728.9	9,720.1	11.4	12.7	-91.07	175.1	-91.0	420.7	404.0	16.67	25.238		
9,800.0	9,766.9	9,776.0	9,767.1	11.4	12.7	-93.16	175.1	-91.0	421.4	404.8	16.56	25.453		
9,850.0	9,812.3	9,822.0	9,813.2	11.4	12.8	-95.59	175.0	-91.0	423.1	406.7	16.44	25.740		
9,900.0	9,855.7	9,871.7	9,862.8	11.5	12.8	-98.27	172.2	-90.9	426.1	409.8	16.37	26.032		
9,950.0	9,896.8	9,923.7	9,914.2	11.5	12.8	-100.92	164.7	-90.5	430.3	413.9	16.41	26.226		
10,000.0	9,935.2	9,978.3	9,967.3	11.6	12.8	-103.54	151.8	-89.9	435.4	418.8	16.59	26.253		
10,050.0	9,970.7	10,035.8	10,021.5	11.6	12.8	-106.10	132.8	-89.0	441.5	424.5	16.95	26.045		
10,100.0	10,003.0	10,096.7	10,076.5	11.7	12.9	-108.59	106.9	-87.8	448.2	430.7	17.54	25.556		
10,150.0	10,031.9	10,161.1	10,131.5	11.8	12.9	-110.98	73.3	-86.3	455.4	437.0	18.38	24.783		
10,200.0	10,057.1	10,229.6	10,185.3	11.8	13.0	-113.24	31.1	-84.3	462.8	443.3	19.46	23.782		
10,250.0	10,078.4	10,302.3	10,236.5	11.9	13.0	-115.33	-20.4	-81.9	470.0	449.3	20.76	22.647		
10,300.0	10,095.7	10,379.3	10,283.2	12.0	13.1	-117.20	-81.5	-79.0	476.8	454.6	22.20	21.478		
10,350.0	10,108.8	10,460.5	10,323.0	12.1	13.2	-118.79	-152.1	-75.7	482.7	459.0	23.69	20.377		
10,400.0	10,117.7	10,545.5	10,353.6	12.1	13.3	-120.03	-231.2	-72.1	487.4	462.3	25.11	19.410		
10,450.0	10,122.3	10,633.4	10,372.6	12.2	13.3	-120.88	-316.8	-68.1	490.6	464.2	26.35	18.621		
10,479.9	10,123.0	10,687.0	10,377.6	12.3	13.4	-121.17	-370.1	-65.6	491.7	464.8	26.95	18.242		
10,500.0	10,122.9	10,720.3	10,378.2	12.3	13.4	-121.25	-403.4	-64.0	491.9	464.7	27.25	18.050		
10,600.0	10,122.4	10,820.3	10,377.8	12.5	13.4	-121.24	-503.3	-59.4	491.9	464.0	27.91	17.626		
10,700.0	10,122.0	10,920.3	10,377.3	12.8	13.4	-121.24	-603.2	-54.7	491.9	463.2	28.64	17.173		
10,800.0	10,121.6	11,020.3	10,376.8	13.1	13.5	-121.24	-703.1	-50.1	491.8	462.4	29.46	16.697		
10,900.0	10,121.2	11,120.3	10,376.4	13.5	13.5	-121.23	-803.0	-45.4	491.8	461.5	30.34	16.209		
11,000.0	10,120.7	11,220.3	10,375.9	14.0	13.6	-121.23	-902.8	-40.7	491.8	460.5	31.29	15.715		
11,100.0	10,120.3	11,320.3	10,375.5	14.5	13.8	-121.23	-1,002.7	-36.1	491.8	459.4	32.31	15.222		
11,200.0	10,119.9	11,420.3	10,375.0	15.1	14.1	-121.23	-1,102.6	-31.4	491.7	458.4	33.37	14.735		
11,300.0	10,119.5	11,520.3	10,374.5	15.8	14.6	-121.22	-1,202.5	-26.8	491.7	457.2	34.49	14.258		
11,400.0	10,119.0	11,620.3	10,374.1	16.4	15.3	-121.22	-1,302.4	-22.1	491.7	456.0	35.65	13.793		
11,500.0	10,118.6	11,720.3	10,373.6	17.1	16.0	-121.22	-1,402.3	-17.4	491.6	454.8	36.85	13.343		
11,600.0	10,118.2	11,820.3	10,373.2	17.8	16.8	-121.22	-1,502.2	-12.8	491.6	453.5	38.08	12.908		
11,700.0	10,117.8	11,920.3	10,372.7	18.5	17.5	-121.21	-1,602.1	-8.1	491.6	452.2	39.35	12.491		
11,800.0	10,117.3	12,020.3	10,372.2	19.2	18.3	-121.21	-1,702.0	-3.5	491.6	450.9	40.66	12.091		
11,900.0	10,116.9	12,120.3	10,371.8	20.0	19.1	-121.21	-1,801.9	1.2	491.5	449.5	41.98	11.708		
12,000.0	10,116.5	12,220.3	10,371.3	20.7	19.9	-121.20	-1,901.8	5.8	491.5	448.2	43.34	11.342		
12,100.0	10,116.0	12,320.3	10,370.8	21.5	20.7	-121.20	-2,001.6	10.5	491.5	446.8	44.71	10.992		
12,200.0	10,115.6	12,420.3	10,370.4	22.3	21.5	-121.20	-2,101.5	15.2	491.4	445.3	46.11	10.659		
12,300.0	10,115.2	12,520.3	10,369.9	23.0	22.3	-121.20	-2,201.4	19.8	491.4	443.9	47.52	10.341		
12,400.0	10,114.8	12,620.3	10,369.5	23.8	23.1	-121.19	-2,301.3	24.5	491.4	442.4	48.95	10.038		
12,500.0	10,114.3	12,720.3	10,369.0	24.6	23.9	-121.19	-2,401.2	29.1	491.4	441.0	50.40	9.749		
12,600.0	10,113.9	12,820.3	10,368.5	25.4	24.7	-121.19	-2,501.1	33.8	491.3	439.5	51.86	9.474		
12,700.0	10,113.5	12,920.3	10,368.1	26.2	25.5	-121.18	-2,601.0	38.5	491.3	438.0	53.34	9.211		
12,800.0	10,113.1	13,020.3	10,367.6	27.0	26.3	-121.18	-2,700.9	43.1	491.3	436.4	54.82	8.961		
12,900.0	10,112.6	13,120.3	10,367.1	27.8	27.2	-121.18	-2,800.8	47.8	491.2	434.9	56.32	8.722		
13,000.0	10,112.2	13,220.3	10,366.7	28.6	28.0	-121.18	-2,900.7	52.4	491.2	433.4	57.83	8.494		
13,100.0	10,111.8	13,320.3	10,366.2	29.4	28.8	-121.17	-3,000.5	57.1	491.2	431.8	59.35	8.276		
13,200.0	10,111.4	13,420.3	10,365.8	30.3	29.7	-121.17	-3,100.4	61.7	491.1	430.3	60.87	8.068		
13,300.0	10,110.9	13,520.3	10,365.3	31.1	30.5	-121.17	-3,200.3	66.4	491.1	428.7	62.41	7.870		
13,400.0	10,110.5	13,620.3	10,364.8	31.9	31.3	-121.16	-3,300.2	71.1	491.1	427.1	63.95	7.679		
13,500.0	10,110.1	13,720.3	10,364.4	32.7	32.2	-121.16	-3,400.1	75.7	491.1	425.6	65.50	7.497		
13,600.0	10,109.7	13,820.3	10,363.9	33.6	33.0	-121.16	-3,500.0	80.4	491.0	424.0	67.06	7.323		
13,700.0	10,109.2	13,920.3	10,363.4	34.4	33.8	-121.16	-3,599.9	85.0	491.0	422.4	68.62	7.156		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 #708H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9814-MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,800.0	10,108.8	14,020.3	10,363.0	35.2	34.7	-121.15	-3,699.8	89.7	491.0	420.8	70.18	6.995			
13,900.0	10,108.4	14,120.3	10,362.5	36.0	35.5	-121.15	-3,799.7	94.3	490.9	419.2	71.76	6.842			
14,000.0	10,107.9	14,220.3	10,362.1	36.9	36.4	-121.15	-3,899.6	99.0	490.9	417.6	73.34	6.694			
14,100.0	10,107.5	14,320.3	10,361.6	37.7	37.2	-121.14	-3,999.4	103.7	490.9	416.0	74.92	6.552			
14,200.0	10,107.1	14,420.3	10,361.1	38.6	38.1	-121.14	-4,099.3	108.3	490.9	414.4	76.51	6.416			
14,300.0	10,106.7	14,520.3	10,360.7	39.4	38.9	-121.14	-4,199.2	113.0	490.8	412.7	78.10	6.285			
14,400.0	10,106.2	14,620.3	10,360.2	40.2	39.7	-121.14	-4,299.1	117.6	490.8	411.1	79.69	6.159			
14,500.0	10,105.8	14,720.3	10,359.8	41.1	40.6	-121.13	-4,399.0	122.3	490.8	409.5	81.29	6.037			
14,600.0	10,105.4	14,820.3	10,359.3	41.9	41.4	-121.13	-4,498.9	127.0	490.7	407.9	82.89	5.920			
14,700.0	10,105.0	14,920.3	10,358.8	42.7	42.3	-121.13	-4,598.8	131.6	490.7	406.2	84.50	5.808			
14,800.0	10,104.5	15,020.3	10,358.4	43.6	43.1	-121.12	-4,698.7	136.3	490.7	404.6	86.11	5.699			
14,900.0	10,104.1	15,120.3	10,357.9	44.4	44.0	-121.12	-4,798.6	140.9	490.7	402.9	87.72	5.594			
15,000.0	10,103.7	15,220.3	10,357.4	45.3	44.8	-121.12	-4,898.5	145.6	490.6	401.3	89.33	5.492			
15,100.0	10,103.3	15,320.3	10,357.0	46.1	45.7	-121.12	-4,998.4	150.2	490.6	399.7	90.95	5.394			
15,183.4	10,102.9	15,403.6	10,356.6	46.8	46.4	-121.11	-5,081.6	154.1	490.6	398.3	92.30	5.315			
15,184.3	10,102.9	15,404.6	10,356.6	46.8	46.4	-121.11	-5,082.6	154.2	490.6	398.3	92.31	5.314			
15,200.0	10,102.8	15,420.3	10,356.5	47.0	46.5	-121.11	-5,098.2	154.9	490.6	398.1	92.57	5.300			
15,300.0	10,102.4	15,536.9	10,356.0	47.8	47.5	-121.07	-5,214.8	158.1	491.0	396.6	94.38	5.202			
15,341.6	10,102.2	15,585.6	10,355.8	48.2	47.9	-121.07	-5,263.5	158.0	490.9	395.8	95.10	5.162			
15,368.1	10,102.1	15,611.6	10,355.6	48.4	48.2	-121.06	-5,289.5	157.8	490.9	395.4	95.53	5.139			
15,400.0	10,102.0	15,643.5	10,355.5	48.7	48.4	-121.06	-5,321.4	157.5	490.9	394.9	96.04	5.112			
15,500.0	10,101.5	15,743.5	10,355.0	49.5	49.3	-121.06	-5,421.4	156.7	490.9	393.3	97.65	5.027			
15,600.0	10,101.1	15,843.5	10,354.6	50.3	50.1	-121.06	-5,521.4	155.8	490.9	391.6	99.27	4.945			
15,700.0	10,100.7	15,943.5	10,354.1	51.2	51.0	-121.06	-5,621.4	155.0	490.9	390.0	100.88	4.866			
15,800.0	10,100.3	16,043.5	10,353.6	52.0	51.8	-121.05	-5,721.4	154.1	490.8	388.3	102.50	4.788			
15,900.0	10,099.8	16,143.5	10,353.2	52.9	52.7	-121.05	-5,821.4	153.2	490.8	386.7	104.12	4.714			
16,000.0	10,099.4	16,243.5	10,352.7	53.7	53.5	-121.05	-5,921.4	152.4	490.8	385.0	105.74	4.641			
16,100.0	10,099.0	16,343.5	10,352.3	54.5	54.3	-121.04	-6,021.4	151.5	490.8	383.4	107.37	4.571			
16,200.0	10,098.6	16,443.5	10,351.8	55.4	55.2	-121.04	-6,121.4	150.6	490.7	381.7	108.99	4.502			
16,300.0	10,098.1	16,543.5	10,351.3	56.2	56.0	-121.04	-6,221.3	149.8	490.7	380.1	110.62	4.436			
16,400.0	10,097.7	16,643.5	10,350.9	57.1	56.9	-121.04	-6,321.3	148.9	490.7	378.4	112.25	4.371			
16,500.0	10,097.3	16,743.5	10,350.4	57.9	57.7	-121.03	-6,421.3	148.1	490.7	376.8	113.88	4.309			
16,600.0	10,096.8	16,843.5	10,350.0	58.8	58.6	-121.03	-6,521.3	147.2	490.6	375.1	115.51	4.247			
16,700.0	10,096.4	16,943.5	10,349.5	59.6	59.4	-121.03	-6,621.3	146.3	490.6	373.5	117.14	4.188			
16,800.0	10,096.0	17,043.5	10,349.0	60.5	60.3	-121.03	-6,721.3	145.5	490.6	371.8	118.78	4.130			
16,900.0	10,095.6	17,143.5	10,348.6	61.3	61.1	-121.02	-6,821.3	144.6	490.5	370.1	120.41	4.074			
17,000.0	10,095.1	17,243.5	10,348.1	62.1	62.0	-121.02	-6,921.3	143.8	490.5	368.5	122.05	4.019			
17,100.0	10,094.7	17,343.5	10,347.7	63.0	62.8	-121.02	-7,021.3	142.9	490.5	366.8	123.69	3.966			
17,200.0	10,094.3	17,443.5	10,347.2	63.8	63.7	-121.01	-7,121.3	142.0	490.5	365.1	125.32	3.914			
17,300.0	10,093.9	17,543.5	10,346.7	64.7	64.5	-121.01	-7,221.3	141.2	490.4	363.5	126.96	3.863			
17,400.0	10,093.4	17,643.5	10,346.3	65.5	65.4	-121.01	-7,321.3	140.3	490.4	361.8	128.60	3.813			
17,500.0	10,093.0	17,743.5	10,345.8	66.4	66.2	-121.01	-7,421.3	139.4	490.4	360.2	130.25	3.765			
17,600.0	10,092.6	17,843.5	10,345.4	67.2	67.1	-121.00	-7,521.3	138.6	490.4	358.5	131.89	3.718			
17,700.0	10,092.1	17,943.5	10,344.9	68.1	67.9	-121.00	-7,621.3	137.7	490.3	356.8	133.53	3.672			
17,800.0	10,091.7	18,043.5	10,344.4	68.9	68.8	-121.00	-7,721.3	136.9	490.3	355.1	135.17	3.627			
17,900.0	10,091.3	18,143.5	10,344.0	69.8	69.6	-121.00	-7,821.3	136.0	490.3	353.5	136.82	3.584			
18,000.0	10,090.9	18,243.5	10,343.5	70.6	70.5	-120.99	-7,921.3	135.1	490.3	351.8	138.47	3.541			
18,100.0	10,090.4	18,343.5	10,343.1	71.5	71.3	-120.99	-8,021.3	134.3	490.2	350.1	140.11	3.499			
18,200.0	10,090.0	18,443.5	10,342.6	72.3	72.2	-120.99	-8,121.3	133.4	490.2	348.5	141.76	3.458			
18,300.0	10,089.6	18,543.5	10,342.1	73.2	73.0	-120.98	-8,221.3	132.6	490.2	346.8	143.41	3.418			
18,400.0	10,089.2	18,643.5	10,341.7	74.0	73.9	-120.98	-8,321.2	131.7	490.2	345.1	145.06	3.379			

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9814-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Warning	
Depth	Depth	Depth	Depth	Reference	Offset	Offset	Toolface	+N/-S	+E/-W	Between	Distance	Minimum	Separation
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Between	Separation	Factor
										(usft)	Ellipses	(usft)	
18,500.0	10,088.7	18,743.5	10,341.2	74.9	74.8	-120.98	-8,421.2	130.8	490.1	490.1	343.4	146.70	3.341
18,600.0	10,088.3	18,843.5	10,340.8	75.7	75.6	-120.98	-8,521.2	130.0	490.1	490.1	341.8	148.35	3.304
18,700.0	10,087.9	18,943.5	10,340.3	76.6	76.5	-120.97	-8,621.2	129.1	490.1	490.1	340.1	150.01	3.267
18,800.0	10,087.4	19,043.5	10,339.8	77.4	77.3	-120.97	-8,721.2	128.2	490.1	490.1	338.4	151.66	3.231
18,900.0	10,087.0	19,143.5	10,339.4	78.3	78.2	-120.97	-8,821.2	127.4	490.0	490.0	336.7	153.31	3.196
19,000.0	10,086.6	19,243.5	10,338.9	79.1	79.0	-120.96	-8,921.2	126.5	490.0	490.0	335.1	154.96	3.162
19,100.0	10,086.2	19,343.5	10,338.5	80.0	79.9	-120.96	-9,021.2	125.7	490.0	490.0	333.4	156.61	3.129
19,200.0	10,085.7	19,443.5	10,338.0	80.8	80.7	-120.96	-9,121.2	124.8	490.0	490.0	331.7	158.27	3.096
19,300.0	10,085.3	19,543.5	10,337.5	81.7	81.6	-120.96	-9,221.2	123.9	489.9	489.9	330.0	159.92	3.064
19,400.0	10,084.9	19,643.5	10,337.1	82.5	82.4	-120.95	-9,321.2	123.1	489.9	489.9	328.3	161.58	3.032
19,500.0	10,084.5	19,743.5	10,336.6	83.4	83.3	-120.95	-9,421.2	122.2	489.9	489.9	326.7	163.23	3.001
19,600.0	10,084.0	19,843.5	10,336.2	84.2	84.1	-120.95	-9,521.2	121.3	489.9	489.9	325.0	164.89	2.971
19,700.0	10,083.6	19,943.5	10,335.7	85.1	85.0	-120.95	-9,621.2	120.5	489.8	489.8	323.3	166.54	2.941
19,800.0	10,083.2	20,043.5	10,335.2	85.9	85.8	-120.94	-9,721.2	119.6	489.8	489.8	321.6	168.20	2.912
19,900.0	10,082.7	20,143.5	10,334.8	86.8	86.7	-120.94	-9,821.2	118.8	489.8	489.8	319.9	169.85	2.884
20,000.0	10,082.3	20,243.5	10,334.3	87.6	87.5	-120.94	-9,921.2	117.9	489.8	489.8	318.3	171.51	2.856
20,100.0	10,081.9	20,343.5	10,333.8	88.5	88.4	-120.93	-10,021.2	117.0	489.7	489.7	316.6	173.17	2.828
20,200.0	10,081.5	20,443.5	10,333.4	89.4	89.3	-120.93	-10,121.2	116.2	489.7	489.7	314.9	174.83	2.801
20,300.0	10,081.0	20,543.5	10,332.9	90.2	90.1	-120.93	-10,221.2	115.3	489.7	489.7	313.2	176.49	2.775
20,400.0	10,080.6	20,643.5	10,332.5	91.1	91.0	-120.93	-10,321.2	114.5	489.7	489.7	311.5	178.14	2.749
20,500.0	10,080.2	20,743.5	10,332.0	91.9	91.8	-120.92	-10,421.1	113.6	489.6	489.6	309.8	179.80	2.723
20,543.7	10,080.0	20,787.2	10,331.8	92.3	92.2	-120.92	-10,464.9	113.2	489.6	489.6	309.1	180.53	2.712
20,570.3	10,079.9	20,810.6	10,331.7	92.5	92.4	-120.93	-10,488.2	113.1	489.6	489.6	308.7	180.95	2.706
20,585.9	10,079.8	20,825.4	10,331.6	92.6	92.5	-120.93	-10,503.1	113.1	489.6	489.6	308.4	181.20	2.702
20,600.0	10,079.8	20,839.6	10,331.6	92.8	92.6	-120.93	-10,517.2	113.1	489.6	489.6	308.2	181.43	2.698
20,700.0	10,079.3	20,939.6	10,331.1	93.6	93.5	-120.92	-10,617.2	113.2	489.6	489.6	306.5	183.10	2.674
20,800.0	10,078.9	21,039.6	10,330.6	94.5	94.3	-120.92	-10,717.2	113.3	489.6	489.6	304.8	184.76	2.650
20,900.0	10,078.5	21,139.6	10,330.2	95.3	95.2	-120.92	-10,817.2	113.3	489.5	489.5	303.1	186.42	2.626
21,000.0	10,078.0	21,239.6	10,329.7	96.2	96.1	-120.91	-10,917.2	113.4	489.5	489.5	301.4	188.08	2.603
21,100.0	10,077.6	21,339.6	10,329.3	97.0	96.9	-120.91	-11,017.2	113.5	489.5	489.5	299.7	189.75	2.580
21,200.0	10,077.2	21,439.6	10,328.8	97.9	97.8	-120.91	-11,117.2	113.6	489.5	489.5	298.1	191.41	2.557
21,300.0	10,076.8	21,539.6	10,328.3	98.7	98.6	-120.90	-11,217.2	113.6	489.5	489.5	296.4	193.07	2.535
21,400.0	10,076.3	21,639.6	10,327.9	99.6	99.5	-120.90	-11,317.2	113.7	489.4	489.4	294.7	194.74	2.513
21,500.0	10,075.9	21,739.6	10,327.4	100.5	100.3	-120.90	-11,417.2	113.8	489.4	489.4	293.0	196.40	2.492
21,600.0	10,075.5	21,839.6	10,326.9	101.3	101.2	-120.89	-11,517.2	113.9	489.4	489.4	291.3	198.06	2.471
21,700.0	10,075.0	21,939.6	10,326.5	102.2	102.0	-120.89	-11,617.2	113.9	489.4	489.4	289.6	199.73	2.450
21,800.0	10,074.6	22,039.6	10,326.0	103.0	102.9	-120.89	-11,717.2	114.0	489.4	489.4	288.0	201.39	2.430
21,900.0	10,074.2	22,139.6	10,325.6	103.9	103.8	-120.88	-11,817.2	114.1	489.3	489.3	286.3	203.06	2.410
22,000.0	10,073.8	22,239.6	10,325.1	104.7	104.6	-120.88	-11,917.2	114.2	489.3	489.3	284.6	204.72	2.390
22,100.0	10,073.3	22,339.6	10,324.6	105.6	105.5	-120.88	-12,017.2	114.2	489.3	489.3	282.9	206.39	2.371
22,200.0	10,072.9	22,439.6	10,324.2	106.4	106.3	-120.87	-12,117.2	114.3	489.3	489.3	281.2	208.06	2.352
22,300.0	10,072.5	22,539.6	10,323.7	107.3	107.2	-120.87	-12,217.2	114.4	489.3	489.3	279.5	209.72	2.333
22,400.0	10,072.0	22,639.6	10,323.2	108.1	108.0	-120.87	-12,317.2	114.5	489.2	489.2	277.9	211.39	2.314
22,500.0	10,071.6	22,739.6	10,322.8	109.0	108.9	-120.86	-12,417.2	114.5	489.2	489.2	276.2	213.06	2.296
22,600.0	10,071.2	22,839.6	10,322.3	109.9	109.8	-120.86	-12,517.2	114.6	489.2	489.2	274.5	214.72	2.278
22,700.0	10,070.8	22,939.6	10,321.9	110.7	110.6	-120.86	-12,617.2	114.7	489.2	489.2	272.8	216.39	2.261
22,800.0	10,070.3	23,039.6	10,321.4	111.6	111.5	-120.85	-12,717.2	114.8	489.2	489.2	271.1	218.06	2.243
22,900.0	10,069.9	23,139.6	10,320.9	112.4	112.3	-120.85	-12,817.2	114.8	489.1	489.1	269.4	219.72	2.226
23,000.0	10,069.5	23,239.6	10,320.5	113.3	113.2	-120.85	-12,917.2	114.9	489.1	489.1	267.7	221.39	2.209
23,100.0	10,069.0	23,339.6	10,320.0	114.1	114.0	-120.84	-13,017.2	115.0	489.1	489.1	266.1	223.06	2.193
23,200.0	10,068.6	23,439.6	10,319.5	115.0	114.9	-120.84	-13,117.2	115.0	489.1	489.1	264.4	224.73	2.176

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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 #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9814-MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	Warning	
23,300.0	10,068.2	23,539.6	10,319.1	115.8	115.7	-120.84	-13,217.2	115.1	489.1	262.7	226.40	2.160		
23,400.0	10,067.8	23,639.6	10,318.6	116.7	116.6	-120.83	-13,317.2	115.2	489.1	261.0	228.06	2.144		
23,500.0	10,067.3	23,739.6	10,318.2	117.6	117.5	-120.83	-13,417.2	115.3	489.0	259.3	229.73	2.129		
23,600.0	10,066.9	23,839.6	10,317.7	118.4	118.3	-120.83	-13,517.2	115.3	489.0	257.6	231.40	2.113		
23,700.0	10,066.5	23,939.6	10,317.2	119.3	119.2	-120.82	-13,617.2	115.4	489.0	255.9	233.07	2.098		
23,800.0	10,066.0	24,039.6	10,316.8	120.1	120.0	-120.82	-13,717.2	115.5	489.0	254.2	234.74	2.083		
23,900.0	10,065.6	24,139.6	10,316.3	121.0	120.9	-120.82	-13,817.2	115.6	489.0	252.5	236.41	2.068		
24,000.0	10,065.2	24,239.6	10,315.8	121.8	121.7	-120.81	-13,917.2	115.6	488.9	250.9	238.08	2.054		
24,100.0	10,064.8	24,339.6	10,315.4	122.7	122.6	-120.81	-14,017.2	115.7	488.9	249.2	239.75	2.039		
24,200.0	10,064.3	24,439.6	10,314.9	123.5	123.5	-120.81	-14,117.2	115.8	488.9	247.5	241.42	2.025		
24,300.0	10,063.9	24,539.6	10,314.5	124.4	124.3	-120.80	-14,217.2	115.9	488.9	245.8	243.09	2.011		
24,400.0	10,063.5	24,639.6	10,314.0	125.3	125.2	-120.80	-14,317.2	115.9	488.9	244.1	244.76	1.997 Advise and Monitor		
24,500.0	10,063.1	24,739.6	10,313.5	126.1	126.0	-120.80	-14,417.2	116.0	488.8	242.4	246.43	1.984 Advise and Monitor		
24,600.0	10,062.6	24,839.6	10,313.1	127.0	126.9	-120.79	-14,517.2	116.1	488.8	240.7	248.10	1.970 Advise and Monitor		
24,700.0	10,062.2	24,939.6	10,312.6	127.8	127.7	-120.79	-14,617.2	116.2	488.8	239.0	249.77	1.957 Advise and Monitor		
24,800.0	10,061.8	25,039.6	10,312.1	128.7	128.6	-120.79	-14,717.2	116.2	488.8	237.3	251.44	1.944 Advise and Monitor		
24,900.0	10,061.3	25,139.6	10,311.7	129.5	129.5	-120.78	-14,817.2	116.3	488.8	235.7	253.11	1.931 Advise and Monitor		
25,000.0	10,060.9	25,239.6	10,311.2	130.4	130.3	-120.78	-14,917.2	116.4	488.7	234.0	254.78	1.918 Advise and Monitor		
25,100.0	10,060.5	25,339.6	10,310.8	131.3	131.2	-120.78	-15,017.2	116.5	488.7	232.3	256.45	1.906 Advise and Monitor		
25,200.0	10,060.1	25,439.6	10,310.3	132.1	132.0	-120.77	-15,117.2	116.5	488.7	230.6	258.12	1.893 Advise and Monitor		
25,300.0	10,059.6	25,539.6	10,309.8	133.0	132.9	-120.77	-15,217.2	116.6	488.7	228.9	259.79	1.881 Advise and Monitor		
25,400.0	10,059.2	25,639.6	10,309.4	133.8	133.7	-120.77	-15,317.2	116.7	488.7	227.2	261.46	1.869 Advise and Monitor		
25,500.0	10,058.8	25,739.6	10,308.9	134.7	134.6	-120.76	-15,417.2	116.8	488.7	225.5	263.13	1.857 Advise and Monitor		
25,600.0	10,058.3	25,839.6	10,308.4	135.5	135.5	-120.76	-15,517.2	116.8	488.6	223.8	264.81	1.845 Advise and Monitor		
25,678.8	10,058.0	25,918.3	10,308.1	136.2	136.1	-120.76	-15,595.9	116.9	488.6	222.5	266.12	1.836 Advise and Monitor, SF		

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

1/18/2022 1:28:16PM

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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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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' @ 3002.5usft (P84)

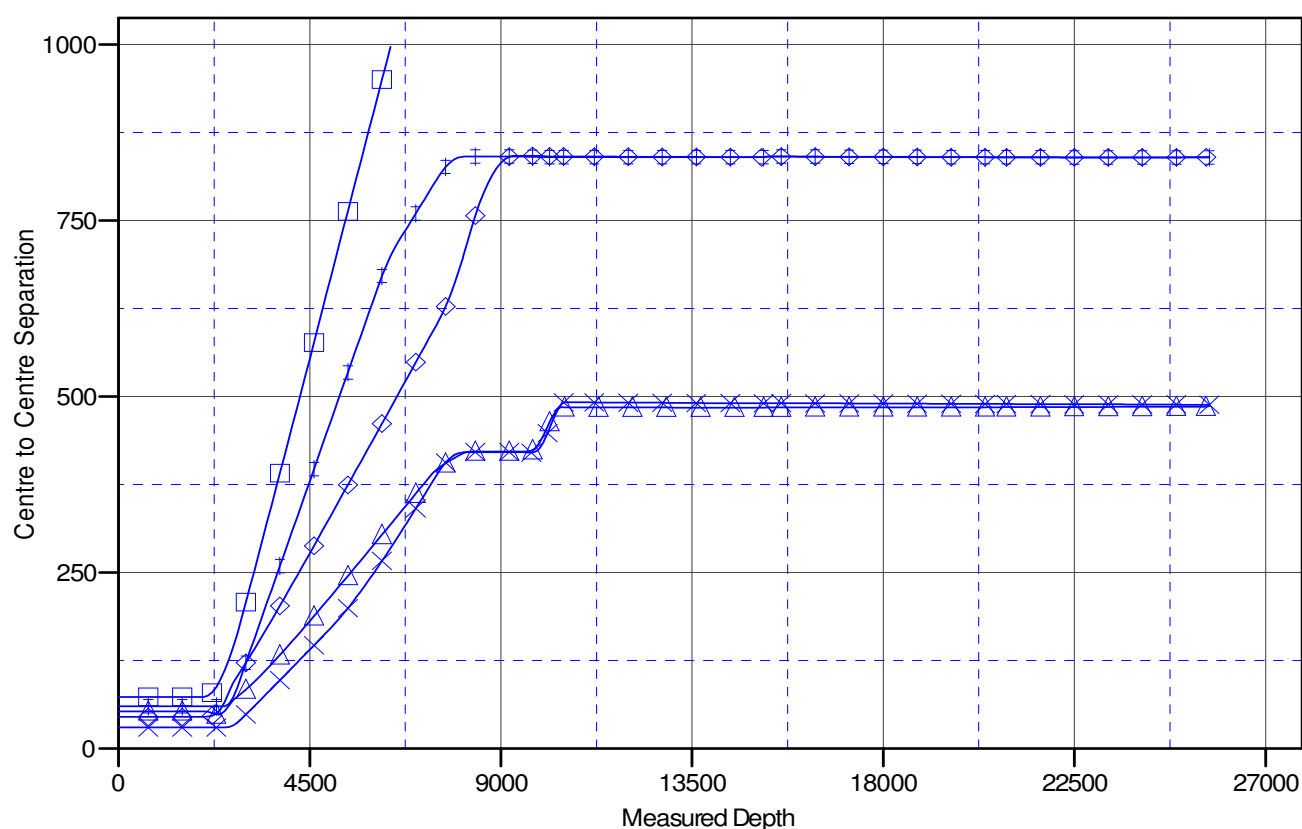
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #709H

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

Grid Convergence at Surface is: 0.19°

Ladder 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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #709H	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' @ 3002.5usft (P84)

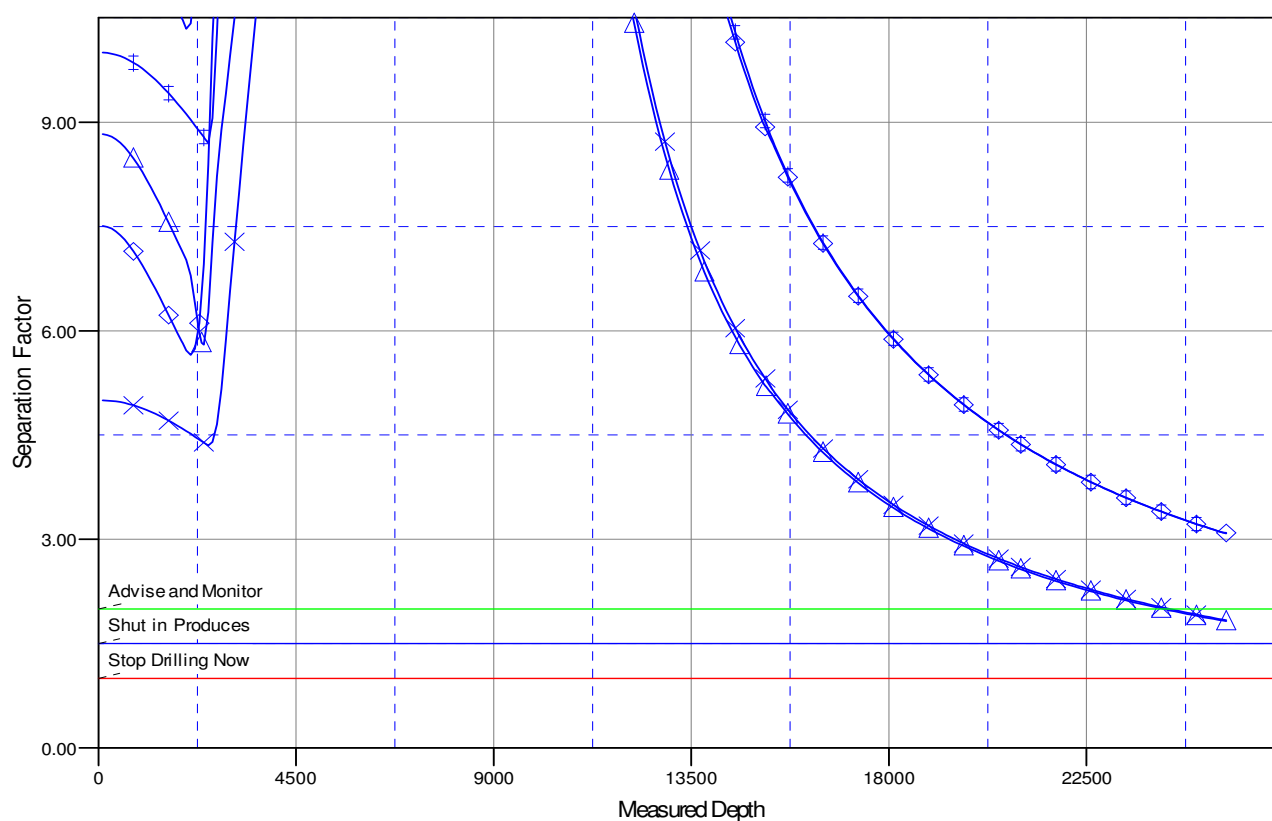
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #709H

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 #709H OWB, PWP1 V0
 ROCK JELLY FED COM #702H OWB, PWP1 V0
 ROCK JELLY FED COM #708H OWB, PWP1 V0

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #709H

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	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 #709H					
Well Position	+N/-S	0.0 usft	Northing:	392,346.50 usft	Latitude:	32° 4' 41.324 N
	+E/-W	0.0 usft	Easting:	613,588.10 usft	Longitude:	103° 57' 59.773 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,977.5 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	12/16/2021	6.65	59.69	47,529.92065478

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	181.11	

Survey Tool Program	Date	1/13/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,577.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,577.0	25,678.8	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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	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	288.67	2,600.0	0.6	-1.7	-0.5	2.00	2.00	0.00
2,700.0	4.00	288.67	2,699.8	2.2	-6.6	-2.1	2.00	2.00	0.00
2,800.0	6.00	288.67	2,799.5	5.0	-14.9	-4.7	2.00	2.00	0.00
Start 4719.8 hold at 2800.0 MD									
2,900.0	6.00	288.67	2,898.9	8.4	-24.8	-7.9	0.00	0.00	0.00
3,000.0	6.00	288.67	2,998.4	11.7	-34.7	-11.0	0.00	0.00	0.00
3,100.0	6.00	288.67	3,097.8	15.1	-44.6	-14.2	0.00	0.00	0.00
3,200.0	6.00	288.67	3,197.3	18.4	-54.5	-17.3	0.00	0.00	0.00
3,300.0	6.00	288.67	3,296.7	21.8	-64.4	-20.5	0.00	0.00	0.00
3,400.0	6.00	288.67	3,396.2	25.1	-74.3	-23.7	0.00	0.00	0.00
3,500.0	6.00	288.67	3,495.6	28.4	-84.2	-26.8	0.00	0.00	0.00
3,600.0	6.00	288.67	3,595.1	31.8	-94.1	-30.0	0.00	0.00	0.00
3,700.0	6.00	288.67	3,694.5	35.1	-104.0	-33.1	0.00	0.00	0.00
3,800.0	6.00	288.67	3,794.0	38.5	-113.9	-36.3	0.00	0.00	0.00
3,900.0	6.00	288.67	3,893.4	41.8	-123.8	-39.4	0.00	0.00	0.00
4,000.0	6.00	288.67	3,992.9	45.2	-133.7	-42.6	0.00	0.00	0.00
4,100.0	6.00	288.67	4,092.3	48.5	-143.6	-45.7	0.00	0.00	0.00
4,200.0	6.00	288.67	4,191.8	51.9	-153.5	-48.9	0.00	0.00	0.00
4,300.0	6.00	288.67	4,291.2	55.2	-163.4	-52.0	0.00	0.00	0.00
4,400.0	6.00	288.67	4,390.7	58.6	-173.3	-55.2	0.00	0.00	0.00
4,500.0	6.00	288.67	4,490.1	61.9	-183.2	-58.3	0.00	0.00	0.00
4,600.0	6.00	288.67	4,589.6	65.3	-193.1	-61.5	0.00	0.00	0.00
4,700.0	6.00	288.67	4,689.0	68.6	-203.0	-64.6	0.00	0.00	0.00
4,800.0	6.00	288.67	4,788.5	71.9	-212.9	-67.8	0.00	0.00	0.00
4,900.0	6.00	288.67	4,887.9	75.3	-222.8	-70.9	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.0	6.00	288.67	4,987.4	78.6	-232.7	-74.1	0.00	0.00	0.00
5,100.0	6.00	288.67	5,086.9	82.0	-242.6	-77.3	0.00	0.00	0.00
5,200.0	6.00	288.67	5,186.3	85.3	-252.5	-80.4	0.00	0.00	0.00
5,300.0	6.00	288.67	5,285.8	88.7	-262.4	-83.6	0.00	0.00	0.00
5,400.0	6.00	288.67	5,385.2	92.0	-272.3	-86.7	0.00	0.00	0.00
5,500.0	6.00	288.67	5,484.7	95.4	-282.2	-89.9	0.00	0.00	0.00
5,600.0	6.00	288.67	5,584.1	98.7	-292.1	-93.0	0.00	0.00	0.00
5,700.0	6.00	288.67	5,683.6	102.1	-302.0	-96.2	0.00	0.00	0.00
5,800.0	6.00	288.67	5,783.0	105.4	-312.0	-99.3	0.00	0.00	0.00
5,900.0	6.00	288.67	5,882.5	108.8	-321.9	-102.5	0.00	0.00	0.00
6,000.0	6.00	288.67	5,981.9	112.1	-331.8	-105.6	0.00	0.00	0.00
6,100.0	6.00	288.67	6,081.4	115.4	-341.7	-108.8	0.00	0.00	0.00
6,200.0	6.00	288.67	6,180.8	118.8	-351.6	-111.9	0.00	0.00	0.00
6,300.0	6.00	288.67	6,280.3	122.1	-361.5	-115.1	0.00	0.00	0.00
6,400.0	6.00	288.67	6,379.7	125.5	-371.4	-118.2	0.00	0.00	0.00
6,500.0	6.00	288.67	6,479.2	128.8	-381.3	-121.4	0.00	0.00	0.00
6,600.0	6.00	288.67	6,578.6	132.2	-391.2	-124.6	0.00	0.00	0.00
6,700.0	6.00	288.67	6,678.1	135.5	-401.1	-127.7	0.00	0.00	0.00
6,800.0	6.00	288.67	6,777.5	138.9	-411.0	-130.9	0.00	0.00	0.00
6,900.0	6.00	288.67	6,877.0	142.2	-420.9	-134.0	0.00	0.00	0.00
7,000.0	6.00	288.67	6,976.4	145.6	-430.8	-137.2	0.00	0.00	0.00
7,100.0	6.00	288.67	7,075.9	148.9	-440.7	-140.3	0.00	0.00	0.00
7,200.0	6.00	288.67	7,175.3	152.3	-450.6	-143.5	0.00	0.00	0.00
7,300.0	6.00	288.67	7,274.8	155.6	-460.5	-146.6	0.00	0.00	0.00
7,400.0	6.00	288.67	7,374.3	158.9	-470.4	-149.8	0.00	0.00	0.00
7,500.0	6.00	288.67	7,473.7	162.3	-480.3	-152.9	0.00	0.00	0.00
7,519.8	6.00	288.67	7,493.4	163.0	-482.3	-153.6	0.00	0.00	0.00
Start Drop -1.00									
7,600.0	5.20	288.67	7,573.2	165.5	-489.7	-155.9	1.00	-1.00	0.00
7,700.0	4.20	288.67	7,672.9	168.1	-497.4	-158.4	1.00	-1.00	0.00
7,800.0	3.20	288.67	7,772.7	170.1	-503.5	-160.3	1.00	-1.00	0.00
7,900.0	2.20	288.67	7,872.6	171.7	-508.0	-161.7	1.00	-1.00	0.00
8,000.0	1.20	288.67	7,972.5	172.6	-510.8	-162.6	1.00	-1.00	0.00
8,100.0	0.20	288.67	8,072.5	173.0	-512.0	-163.0	1.00	-1.00	0.00
8,119.8	0.00	0.00	8,092.3	173.0	-512.0	-163.0	1.00	-1.00	0.00
Start 1457.7 hold at 8119.8 MD									
8,200.0	0.00	0.00	8,172.5	173.0	-512.0	-163.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,272.5	173.0	-512.0	-163.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,372.5	173.0	-512.0	-163.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,472.5	173.0	-512.0	-163.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,572.5	173.0	-512.0	-163.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,672.5	173.0	-512.0	-163.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,800.0	0.00	0.00	8,772.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,872.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,972.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,072.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,172.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,272.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,372.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,472.5	173.0	-512.0	-163.0	0.00	0.00	0.00	
9,577.5	0.00	0.00	9,550.0	173.0	-512.0	-163.0	0.00	0.00	0.00	
Start DLS 10.00 TFO 177.32										
9,600.0	2.25	177.32	9,572.5	172.6	-512.0	-162.6	10.00	10.00	0.00	
9,700.0	12.25	177.32	9,671.6	160.0	-511.4	-150.0	10.00	10.00	0.00	
9,800.0	22.25	177.32	9,766.9	130.4	-510.0	-120.5	10.00	10.00	0.00	
9,900.0	32.25	177.32	9,855.7	84.7	-507.9	-74.8	10.00	10.00	0.00	
10,000.0	42.25	177.32	9,935.2	24.3	-505.0	-14.5	10.00	10.00	0.00	
10,100.0	52.25	177.32	10,003.0	-48.9	-501.6	58.7	10.00	10.00	0.00	
10,200.0	62.25	177.32	10,057.1	-132.8	-497.7	142.5	10.00	10.00	0.00	
10,300.0	72.25	177.32	10,095.7	-224.8	-493.4	234.4	10.00	10.00	0.00	
10,400.0	82.25	177.32	10,117.7	-322.2	-488.9	331.6	10.00	10.00	0.00	
10,479.9	90.24	177.32	10,123.0	-401.8	-485.1	411.1	10.00	10.00	0.00	
Start 4703.4 hold at 10479.9 MD										
10,500.0	90.24	177.32	10,122.9	-421.8	-484.2	431.1	0.00	0.00	0.00	
10,600.0	90.24	177.32	10,122.4	-521.7	-479.5	530.9	0.00	0.00	0.00	
10,700.0	90.24	177.32	10,122.0	-621.6	-474.9	630.7	0.00	0.00	0.00	
10,800.0	90.24	177.32	10,121.6	-721.5	-470.2	730.5	0.00	0.00	0.00	
10,900.0	90.24	177.32	10,121.2	-821.4	-465.5	830.3	0.00	0.00	0.00	
11,000.0	90.24	177.32	10,120.7	-921.3	-460.8	930.0	0.00	0.00	0.00	
11,100.0	90.24	177.32	10,120.3	-1,021.1	-456.2	1,029.8	0.00	0.00	0.00	
11,200.0	90.24	177.32	10,119.9	-1,121.0	-451.5	1,129.6	0.00	0.00	0.00	
11,300.0	90.24	177.32	10,119.5	-1,220.9	-446.8	1,229.4	0.00	0.00	0.00	
11,400.0	90.24	177.32	10,119.0	-1,320.8	-442.2	1,329.2	0.00	0.00	0.00	
11,500.0	90.24	177.32	10,118.6	-1,420.7	-437.5	1,428.9	0.00	0.00	0.00	
11,600.0	90.24	177.32	10,118.2	-1,520.6	-432.8	1,528.7	0.00	0.00	0.00	
11,700.0	90.24	177.32	10,117.8	-1,620.5	-428.2	1,628.5	0.00	0.00	0.00	
11,800.0	90.24	177.32	10,117.3	-1,720.4	-423.5	1,728.3	0.00	0.00	0.00	
11,900.0	90.24	177.32	10,116.9	-1,820.3	-418.8	1,828.1	0.00	0.00	0.00	
12,000.0	90.24	177.32	10,116.5	-1,920.2	-414.1	1,927.8	0.00	0.00	0.00	
12,100.0	90.24	177.32	10,116.0	-2,020.0	-409.5	2,027.6	0.00	0.00	0.00	
12,200.0	90.24	177.32	10,115.6	-2,119.9	-404.8	2,127.4	0.00	0.00	0.00	
12,300.0	90.24	177.32	10,115.2	-2,219.8	-400.1	2,227.2	0.00	0.00	0.00	
12,400.0	90.24	177.32	10,114.8	-2,319.7	-395.5	2,327.0	0.00	0.00	0.00	
12,500.0	90.24	177.32	10,114.3	-2,419.6	-390.8	2,426.7	0.00	0.00	0.00	
12,600.0	90.24	177.32	10,113.9	-2,519.5	-386.1	2,526.5	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,700.0	90.24	177.32	10,113.5	-2,619.4	-381.5	2,626.3	0.00	0.00	0.00
12,800.0	90.24	177.32	10,113.1	-2,719.3	-376.8	2,726.1	0.00	0.00	0.00
12,900.0	90.24	177.32	10,112.6	-2,819.2	-372.1	2,825.9	0.00	0.00	0.00
13,000.0	90.24	177.32	10,112.2	-2,919.1	-367.4	2,925.6	0.00	0.00	0.00
13,100.0	90.24	177.32	10,111.8	-3,018.9	-362.8	3,025.4	0.00	0.00	0.00
13,200.0	90.24	177.32	10,111.4	-3,118.8	-358.1	3,125.2	0.00	0.00	0.00
13,300.0	90.24	177.32	10,110.9	-3,218.7	-353.4	3,225.0	0.00	0.00	0.00
13,400.0	90.24	177.32	10,110.5	-3,318.6	-348.8	3,324.8	0.00	0.00	0.00
13,500.0	90.24	177.32	10,110.1	-3,418.5	-344.1	3,424.5	0.00	0.00	0.00
13,600.0	90.24	177.32	10,109.7	-3,518.4	-339.4	3,524.3	0.00	0.00	0.00
13,700.0	90.24	177.32	10,109.2	-3,618.3	-334.8	3,624.1	0.00	0.00	0.00
13,800.0	90.24	177.32	10,108.8	-3,718.2	-330.1	3,723.9	0.00	0.00	0.00
13,900.0	90.24	177.32	10,108.4	-3,818.1	-325.4	3,823.7	0.00	0.00	0.00
14,000.0	90.24	177.32	10,107.9	-3,918.0	-320.7	3,923.4	0.00	0.00	0.00
14,100.0	90.24	177.32	10,107.5	-4,017.8	-316.1	4,023.2	0.00	0.00	0.00
14,200.0	90.24	177.32	10,107.1	-4,117.7	-311.4	4,123.0	0.00	0.00	0.00
14,300.0	90.24	177.32	10,106.7	-4,217.6	-306.7	4,222.8	0.00	0.00	0.00
14,400.0	90.24	177.32	10,106.2	-4,317.5	-302.1	4,322.6	0.00	0.00	0.00
14,500.0	90.24	177.32	10,105.8	-4,417.4	-297.4	4,422.4	0.00	0.00	0.00
14,600.0	90.24	177.32	10,105.4	-4,517.3	-292.7	4,522.1	0.00	0.00	0.00
14,700.0	90.24	177.32	10,105.0	-4,617.2	-288.1	4,621.9	0.00	0.00	0.00
14,800.0	90.24	177.32	10,104.5	-4,717.1	-283.4	4,721.7	0.00	0.00	0.00
14,900.0	90.24	177.32	10,104.1	-4,817.0	-278.7	4,821.5	0.00	0.00	0.00
15,000.0	90.24	177.32	10,103.7	-4,916.9	-274.0	4,921.3	0.00	0.00	0.00
15,100.0	90.24	177.32	10,103.3	-5,016.7	-269.4	5,021.0	0.00	0.00	0.00
15,183.4	90.24	177.32	10,102.9	-5,100.0	-265.5	5,104.2	0.00	0.00	0.00
Start DLS 2.00 TFO 89.98									
15,200.0	90.24	177.66	10,102.8	-5,116.6	-264.8	5,120.8	2.00	0.00	2.00
15,300.0	90.24	179.66	10,102.4	-5,216.6	-262.4	5,220.7	2.00	0.00	2.00
15,341.6	90.24	180.49	10,102.2	-5,258.2	-262.5	5,262.3	2.00	0.00	2.00
Start 5202.1 hold at 15341.6 MD									
15,400.0	90.24	180.49	10,102.0	-5,316.6	-263.0	5,320.7	0.00	0.00	0.00
15,500.0	90.24	180.49	10,101.5	-5,416.6	-263.8	5,420.7	0.00	0.00	0.00
15,600.0	90.24	180.49	10,101.1	-5,516.6	-264.7	5,520.7	0.00	0.00	0.00
15,700.0	90.24	180.49	10,100.7	-5,616.6	-265.5	5,620.7	0.00	0.00	0.00
15,800.0	90.24	180.49	10,100.3	-5,716.6	-266.4	5,720.7	0.00	0.00	0.00
15,900.0	90.24	180.49	10,099.8	-5,816.6	-267.2	5,820.7	0.00	0.00	0.00
16,000.0	90.24	180.49	10,099.4	-5,916.6	-268.1	5,920.7	0.00	0.00	0.00
16,100.0	90.24	180.49	10,099.0	-6,016.6	-268.9	6,020.7	0.00	0.00	0.00
16,200.0	90.24	180.49	10,098.6	-6,116.6	-269.8	6,120.7	0.00	0.00	0.00
16,300.0	90.24	180.49	10,098.1	-6,216.6	-270.6	6,220.6	0.00	0.00	0.00
16,400.0	90.24	180.49	10,097.7	-6,316.6	-271.5	6,320.6	0.00	0.00	0.00
16,500.0	90.24	180.49	10,097.3	-6,416.6	-272.3	6,420.6	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,600.0	90.24	180.49	10,096.8	-6,516.5	-273.2	6,520.6	0.00	0.00	0.00
16,700.0	90.24	180.49	10,096.4	-6,616.5	-274.0	6,620.6	0.00	0.00	0.00
16,800.0	90.24	180.49	10,096.0	-6,716.5	-274.9	6,720.6	0.00	0.00	0.00
16,900.0	90.24	180.49	10,095.6	-6,816.5	-275.7	6,820.6	0.00	0.00	0.00
17,000.0	90.24	180.49	10,095.1	-6,916.5	-276.6	6,920.6	0.00	0.00	0.00
17,100.0	90.24	180.49	10,094.7	-7,016.5	-277.4	7,020.6	0.00	0.00	0.00
17,200.0	90.24	180.49	10,094.3	-7,116.5	-278.3	7,120.6	0.00	0.00	0.00
17,300.0	90.24	180.49	10,093.9	-7,216.5	-279.2	7,220.6	0.00	0.00	0.00
17,400.0	90.24	180.49	10,093.4	-7,316.5	-280.0	7,320.6	0.00	0.00	0.00
17,500.0	90.24	180.49	10,093.0	-7,416.5	-280.9	7,420.6	0.00	0.00	0.00
17,600.0	90.24	180.49	10,092.6	-7,516.5	-281.7	7,520.6	0.00	0.00	0.00
17,700.0	90.24	180.49	10,092.1	-7,616.5	-282.6	7,620.6	0.00	0.00	0.00
17,800.0	90.24	180.49	10,091.7	-7,716.5	-283.4	7,720.5	0.00	0.00	0.00
17,900.0	90.24	180.49	10,091.3	-7,816.5	-284.3	7,820.5	0.00	0.00	0.00
18,000.0	90.24	180.49	10,090.9	-7,916.5	-285.1	7,920.5	0.00	0.00	0.00
18,100.0	90.24	180.49	10,090.4	-8,016.5	-286.0	8,020.5	0.00	0.00	0.00
18,200.0	90.24	180.49	10,090.0	-8,116.5	-286.8	8,120.5	0.00	0.00	0.00
18,300.0	90.24	180.49	10,089.6	-8,216.5	-287.7	8,220.5	0.00	0.00	0.00
18,400.0	90.24	180.49	10,089.2	-8,316.5	-288.5	8,320.5	0.00	0.00	0.00
18,500.0	90.24	180.49	10,088.7	-8,416.5	-289.4	8,420.5	0.00	0.00	0.00
18,600.0	90.24	180.49	10,088.3	-8,516.5	-290.2	8,520.5	0.00	0.00	0.00
18,700.0	90.24	180.49	10,087.9	-8,616.5	-291.1	8,620.5	0.00	0.00	0.00
18,800.0	90.24	180.49	10,087.4	-8,716.4	-291.9	8,720.5	0.00	0.00	0.00
18,900.0	90.24	180.49	10,087.0	-8,816.4	-292.8	8,820.5	0.00	0.00	0.00
19,000.0	90.24	180.49	10,086.6	-8,916.4	-293.6	8,920.5	0.00	0.00	0.00
19,100.0	90.24	180.49	10,086.2	-9,016.4	-294.5	9,020.5	0.00	0.00	0.00
19,200.0	90.24	180.49	10,085.7	-9,116.4	-295.3	9,120.4	0.00	0.00	0.00
19,300.0	90.24	180.49	10,085.3	-9,216.4	-296.2	9,220.4	0.00	0.00	0.00
19,400.0	90.24	180.49	10,084.9	-9,316.4	-297.0	9,320.4	0.00	0.00	0.00
19,500.0	90.24	180.49	10,084.5	-9,416.4	-297.9	9,420.4	0.00	0.00	0.00
19,600.0	90.24	180.49	10,084.0	-9,516.4	-298.7	9,520.4	0.00	0.00	0.00
19,700.0	90.24	180.49	10,083.6	-9,616.4	-299.6	9,620.4	0.00	0.00	0.00
19,800.0	90.24	180.49	10,083.2	-9,716.4	-300.5	9,720.4	0.00	0.00	0.00
19,900.0	90.24	180.49	10,082.7	-9,816.4	-301.3	9,820.4	0.00	0.00	0.00
20,000.0	90.24	180.49	10,082.3	-9,916.4	-302.2	9,920.4	0.00	0.00	0.00
20,100.0	90.24	180.49	10,081.9	-10,016.4	-303.0	10,020.4	0.00	0.00	0.00
20,200.0	90.24	180.49	10,081.5	-10,116.4	-303.9	10,120.4	0.00	0.00	0.00
20,300.0	90.24	180.49	10,081.0	-10,216.4	-304.7	10,220.4	0.00	0.00	0.00
20,400.0	90.24	180.49	10,080.6	-10,316.4	-305.6	10,320.4	0.00	0.00	0.00
20,500.0	90.24	180.49	10,080.2	-10,416.4	-306.4	10,420.4	0.00	0.00	0.00
20,543.7	90.24	180.49	10,080.0	-10,460.1	-306.8	10,464.1	0.00	0.00	0.00
Start DLS 2.00 TFO -89.92									
20,570.3	90.25	179.96	10,079.9	-10,486.7	-306.9	10,490.7	2.00	0.00	-2.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	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)
Start 5108.5 hold at 20570.3 MD									
20,600.0	90.25	179.96	10,079.8	-10,516.4	-306.9	10,520.3	0.00	0.00	0.00
20,700.0	90.25	179.96	10,079.3	-10,616.4	-306.8	10,620.3	0.00	0.00	0.00
20,800.0	90.25	179.96	10,078.9	-10,716.4	-306.7	10,720.3	0.00	0.00	0.00
20,900.0	90.25	179.96	10,078.5	-10,816.4	-306.6	10,820.3	0.00	0.00	0.00
21,000.0	90.25	179.96	10,078.0	-10,916.4	-306.6	10,920.3	0.00	0.00	0.00
21,100.0	90.25	179.96	10,077.6	-11,016.4	-306.5	11,020.2	0.00	0.00	0.00
21,200.0	90.25	179.96	10,077.2	-11,116.4	-306.4	11,120.2	0.00	0.00	0.00
21,300.0	90.25	179.96	10,076.8	-11,216.4	-306.3	11,220.2	0.00	0.00	0.00
21,400.0	90.25	179.96	10,076.3	-11,316.4	-306.3	11,320.2	0.00	0.00	0.00
21,500.0	90.25	179.96	10,075.9	-11,416.4	-306.2	11,420.2	0.00	0.00	0.00
21,600.0	90.25	179.96	10,075.5	-11,516.4	-306.1	11,520.1	0.00	0.00	0.00
21,700.0	90.25	179.96	10,075.0	-11,616.4	-306.0	11,620.1	0.00	0.00	0.00
21,800.0	90.25	179.96	10,074.6	-11,716.4	-306.0	11,720.1	0.00	0.00	0.00
21,900.0	90.25	179.96	10,074.2	-11,816.4	-305.9	11,820.1	0.00	0.00	0.00
22,000.0	90.25	179.96	10,073.8	-11,916.4	-305.8	11,920.0	0.00	0.00	0.00
22,100.0	90.25	179.96	10,073.3	-12,016.4	-305.7	12,020.0	0.00	0.00	0.00
22,200.0	90.25	179.96	10,072.9	-12,116.4	-305.7	12,120.0	0.00	0.00	0.00
22,300.0	90.25	179.96	10,072.5	-12,216.4	-305.6	12,220.0	0.00	0.00	0.00
22,400.0	90.25	179.96	10,072.0	-12,316.4	-305.5	12,320.0	0.00	0.00	0.00
22,500.0	90.25	179.96	10,071.6	-12,416.4	-305.4	12,419.9	0.00	0.00	0.00
22,600.0	90.25	179.96	10,071.2	-12,516.3	-305.3	12,519.9	0.00	0.00	0.00
22,700.0	90.25	179.96	10,070.8	-12,616.3	-305.3	12,619.9	0.00	0.00	0.00
22,800.0	90.25	179.96	10,070.3	-12,716.3	-305.2	12,719.9	0.00	0.00	0.00
22,900.0	90.25	179.96	10,069.9	-12,816.3	-305.1	12,819.9	0.00	0.00	0.00
23,000.0	90.25	179.96	10,069.5	-12,916.3	-305.0	12,919.8	0.00	0.00	0.00
23,100.0	90.25	179.96	10,069.0	-13,016.3	-305.0	13,019.8	0.00	0.00	0.00
23,200.0	90.25	179.96	10,068.6	-13,116.3	-304.9	13,119.8	0.00	0.00	0.00
23,300.0	90.25	179.96	10,068.2	-13,216.3	-304.8	13,219.8	0.00	0.00	0.00
23,400.0	90.25	179.96	10,067.8	-13,316.3	-304.7	13,319.7	0.00	0.00	0.00
23,500.0	90.25	179.96	10,067.3	-13,416.3	-304.7	13,419.7	0.00	0.00	0.00
23,600.0	90.25	179.96	10,066.9	-13,516.3	-304.6	13,519.7	0.00	0.00	0.00
23,700.0	90.25	179.96	10,066.5	-13,616.3	-304.5	13,619.7	0.00	0.00	0.00
23,800.0	90.25	179.96	10,066.0	-13,716.3	-304.4	13,719.7	0.00	0.00	0.00
23,900.0	90.25	179.96	10,065.6	-13,816.3	-304.4	13,819.6	0.00	0.00	0.00
24,000.0	90.25	179.96	10,065.2	-13,916.3	-304.3	13,919.6	0.00	0.00	0.00
24,100.0	90.25	179.96	10,064.8	-14,016.3	-304.2	14,019.6	0.00	0.00	0.00
24,200.0	90.25	179.96	10,064.3	-14,116.3	-304.1	14,119.6	0.00	0.00	0.00
24,300.0	90.25	179.96	10,063.9	-14,216.3	-304.1	14,219.6	0.00	0.00	0.00
24,400.0	90.25	179.96	10,063.5	-14,316.3	-304.0	14,319.5	0.00	0.00	0.00
24,500.0	90.25	179.96	10,063.1	-14,416.3	-303.9	14,419.5	0.00	0.00	0.00
24,600.0	90.25	179.96	10,062.6	-14,516.3	-303.8	14,519.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
24,700.0	90.25	179.96	10,062.2	-14,616.3	-303.7	14,619.5	0.00	0.00	0.00
24,800.0	90.25	179.96	10,061.8	-14,716.3	-303.7	14,719.5	0.00	0.00	0.00
24,900.0	90.25	179.96	10,061.3	-14,816.3	-303.6	14,819.4	0.00	0.00	0.00
25,000.0	90.25	179.96	10,060.9	-14,916.3	-303.5	14,919.4	0.00	0.00	0.00
25,100.0	90.25	179.96	10,060.5	-15,016.3	-303.4	15,019.4	0.00	0.00	0.00
25,200.0	90.25	179.96	10,060.1	-15,116.3	-303.4	15,119.4	0.00	0.00	0.00
25,300.0	90.25	179.96	10,059.6	-15,216.3	-303.3	15,219.3	0.00	0.00	0.00
25,400.0	90.25	179.96	10,059.2	-15,316.3	-303.2	15,319.3	0.00	0.00	0.00
25,500.0	90.25	179.96	10,058.8	-15,416.3	-303.1	15,419.3	0.00	0.00	0.00
25,600.0	90.25	179.96	10,058.3	-15,516.3	-303.1	15,519.3	0.00	0.00	0.00
25,678.8	90.25	179.96	10,058.0	-15,595.1	-303.0	15,598.0	0.00	0.00	0.00
TD at 25678.8									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(ROCK JELLY F - hit/miss target - Shape - plan hits target center - Rectangle (sides W100.0 H5,141.0 D20.0)	0.24	359.96	10,058.0	-15,595.1	-303.0	376,751.40	613,285.10	32° 2' 6.998 N	103° 58' 3.908 W
LTP(ROCK JELLY FE - plan misses target center by 1.7usft at 25548.6usft MD (10058.6 TVD, -15464.9 N, -303.1 E) - Point	0.00	0.00	10,058.0	-15,464.9	-304.7	376,881.60	613,283.40	32° 2' 8.286 N	103° 58' 3.923 W
POI#2(ROCK JELLY I - plan hits target center - Rectangle (sides W100.0 H5,351.0 D20.0)	0.24	0.49	10,080.0	-10,460.1	-306.8	381,886.41	613,281.31	32° 2' 57.816 N	103° 58' 3.750 W
POI#1(ROCK JELLY I - plan hits target center - Rectangle (sides W100.0 H5,265.0 D20.0)	0.24	357.32	10,102.9	-5,100.0	-265.5	387,246.49	613,322.62	32° 3' 50.861 N	103° 58' 3.059 W
FTP(ROCK JELLY FE - plan misses target center by 84.9usft at 10188.6usft MD (10051.6 TVD, -122.8 N, -498.2 E) - Circle (radius 50.0)	0.00	0.00	10,123.0	-77.0	-502.0	392,269.50	613,086.10	32° 4' 40.578 N	103° 58' 5.610 W

ConocoPhillips

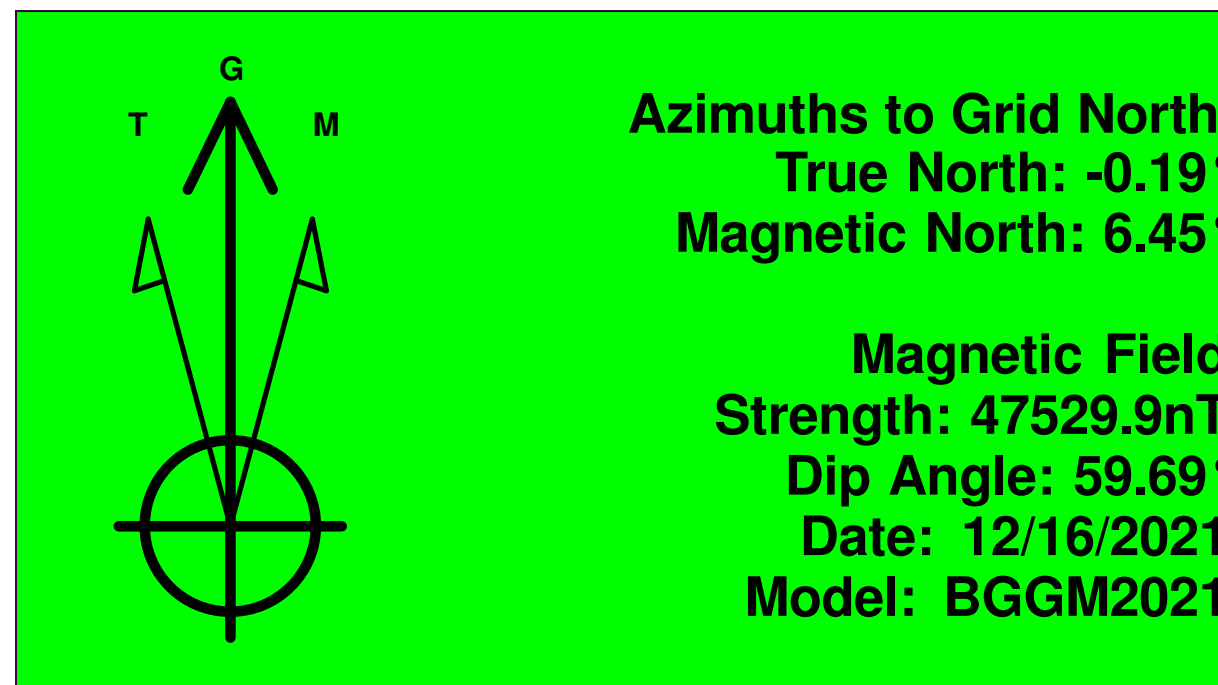
Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3002.5usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3002.5usft (P84)
Well:	ROCK JELLY FED COM #709H	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
2800	2799	5	-15	Start 4719.8 hold at 2800.0 MD
7520	7493	163	-482	Start Drop -1.00
8120	8092	173	-512	Start 1457.7 hold at 8119.8 MD
9577	9550	173	-512	Start DLS 10.00 TFO 177.32
10,480	10,123	-402	-485	Start 4703.4 hold at 10479.9 MD
15,183	10,103	-5100	-265	Start DLS 2.00 TFO 89.98
15,342	10,102	-5258	-262	Start 5202.1 hold at 15341.6 MD
20,544	10,080	-10,460	-307	Start DLS 2.00 TFO -89.92
20,570	10,080	-10,487	-307	Start 5108.5 hold at 20570.3 MD
25,679	10,058	-15,595	-303	TD at 25678.8

Checked By: _____ Approved By: _____ Date: _____

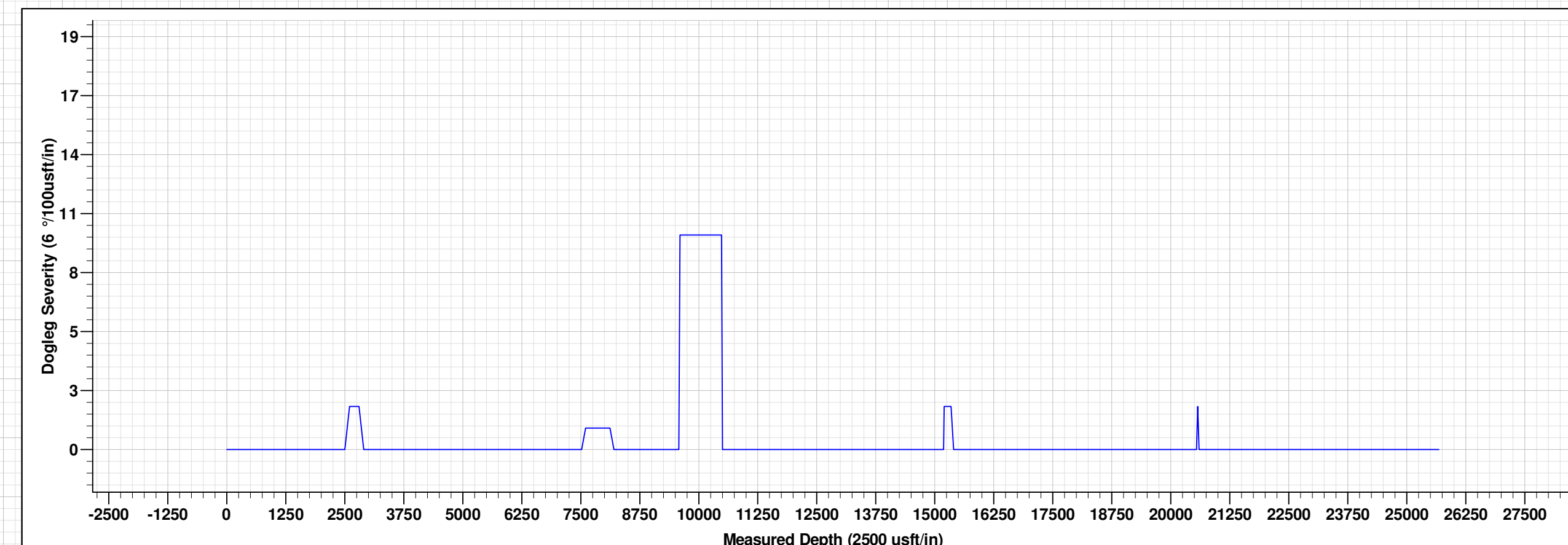
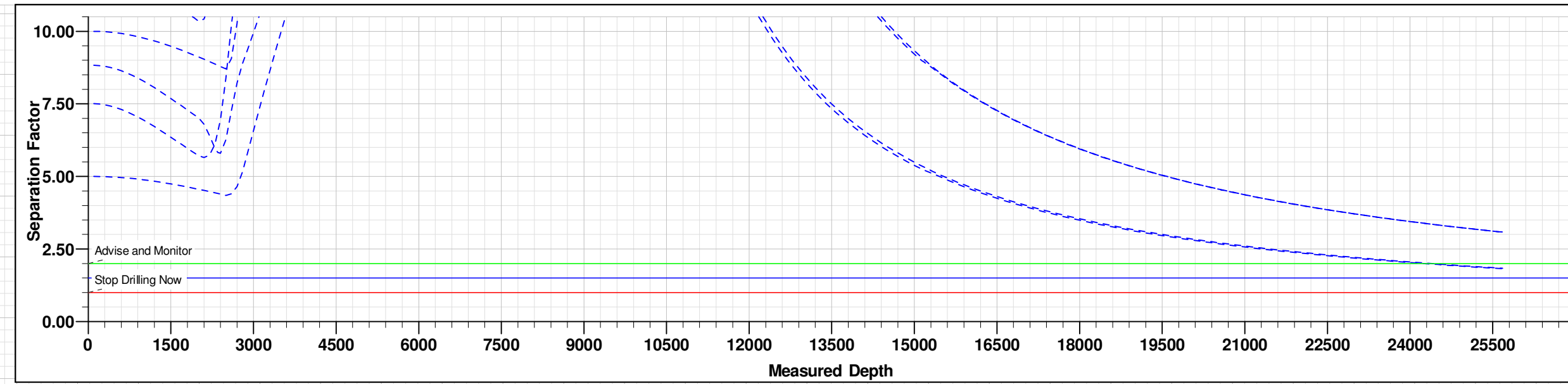


Project: ATLAS PROSPECT (NM-E)
Site: ROCK JELLY FEDERAL PROJECT (ATLAS 2629)
Well: ROCK JELLY FED COM #709H
Wellbore: OWB
Design: PWP1
GL: 2977.5
KB=25' @ 3002.5usft (P84)

WELL DETAILS: ROCK JELLY FED COM #709H				
+N/-S	+E/-W	Northing	Easting	Latitude
0.0	0.0	392346.50	613588.10	32° 4' 41.324 N
				103° 57' 59.773 W

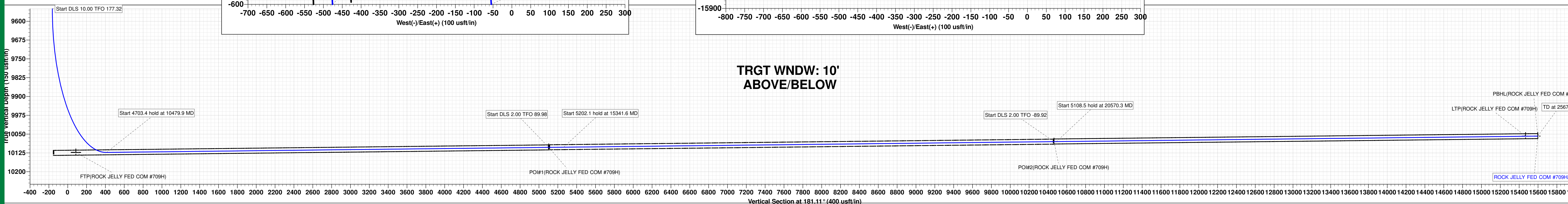
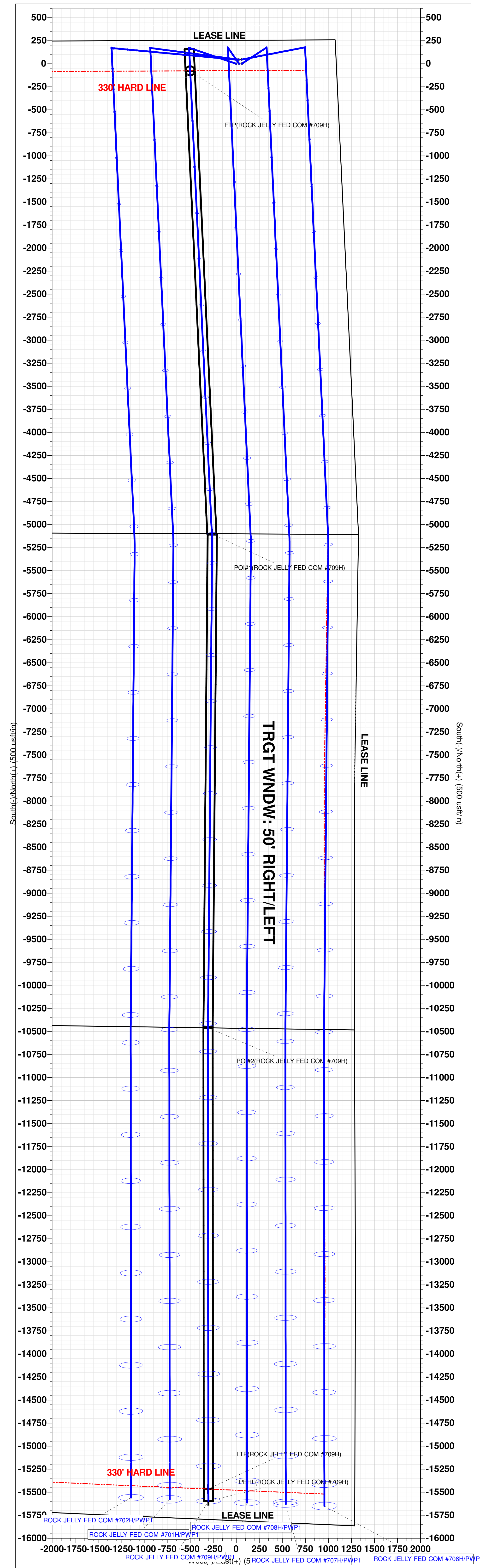
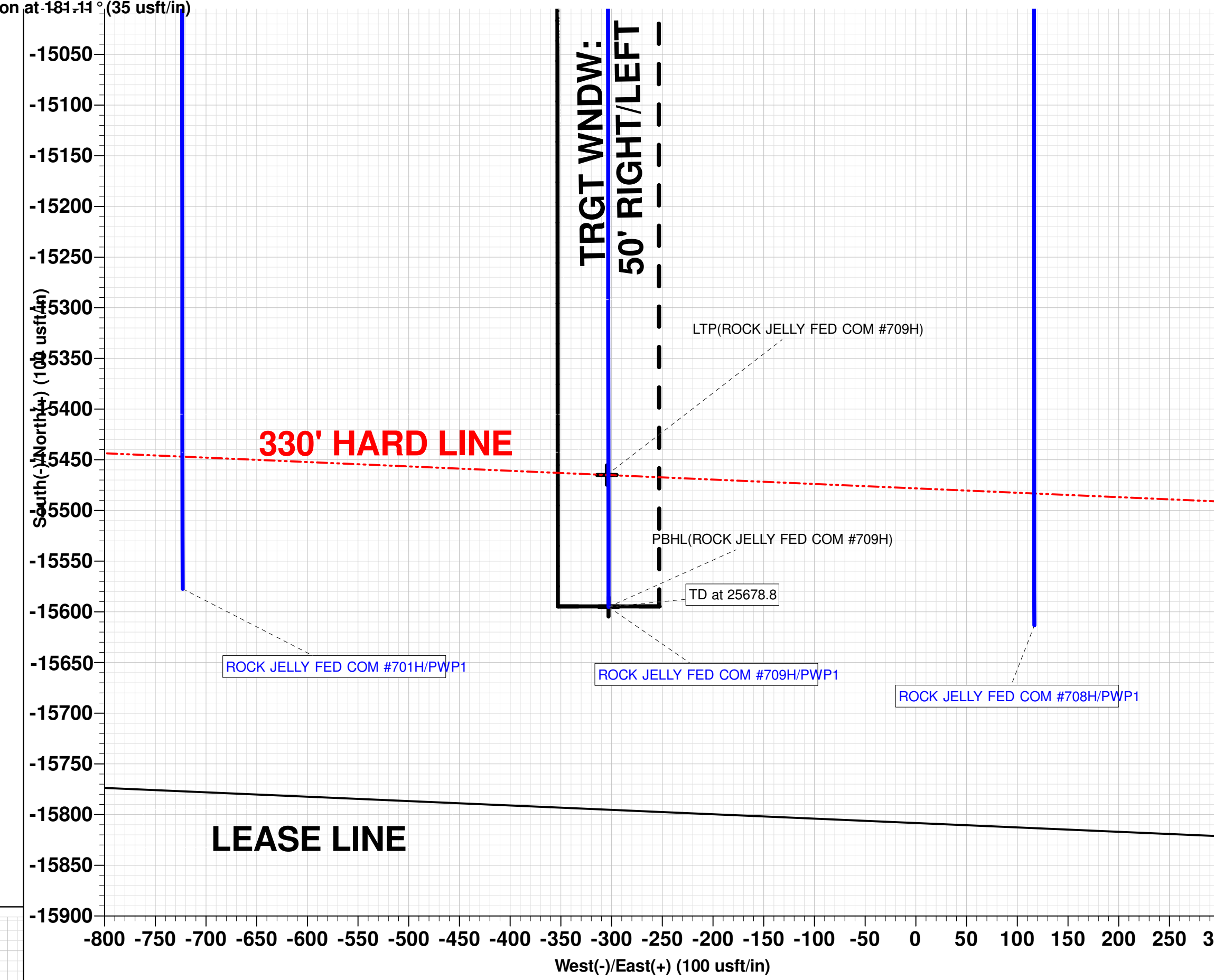
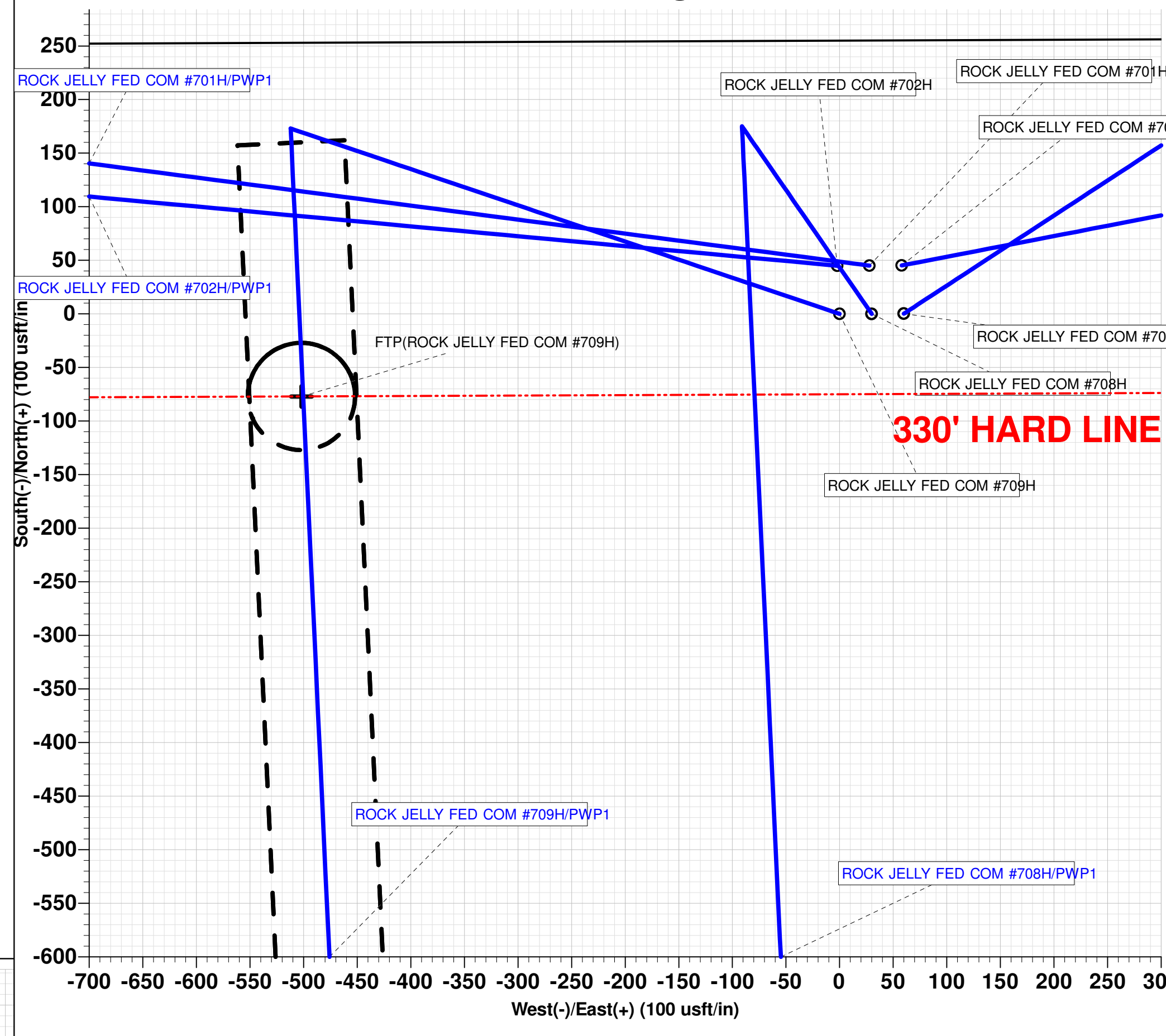
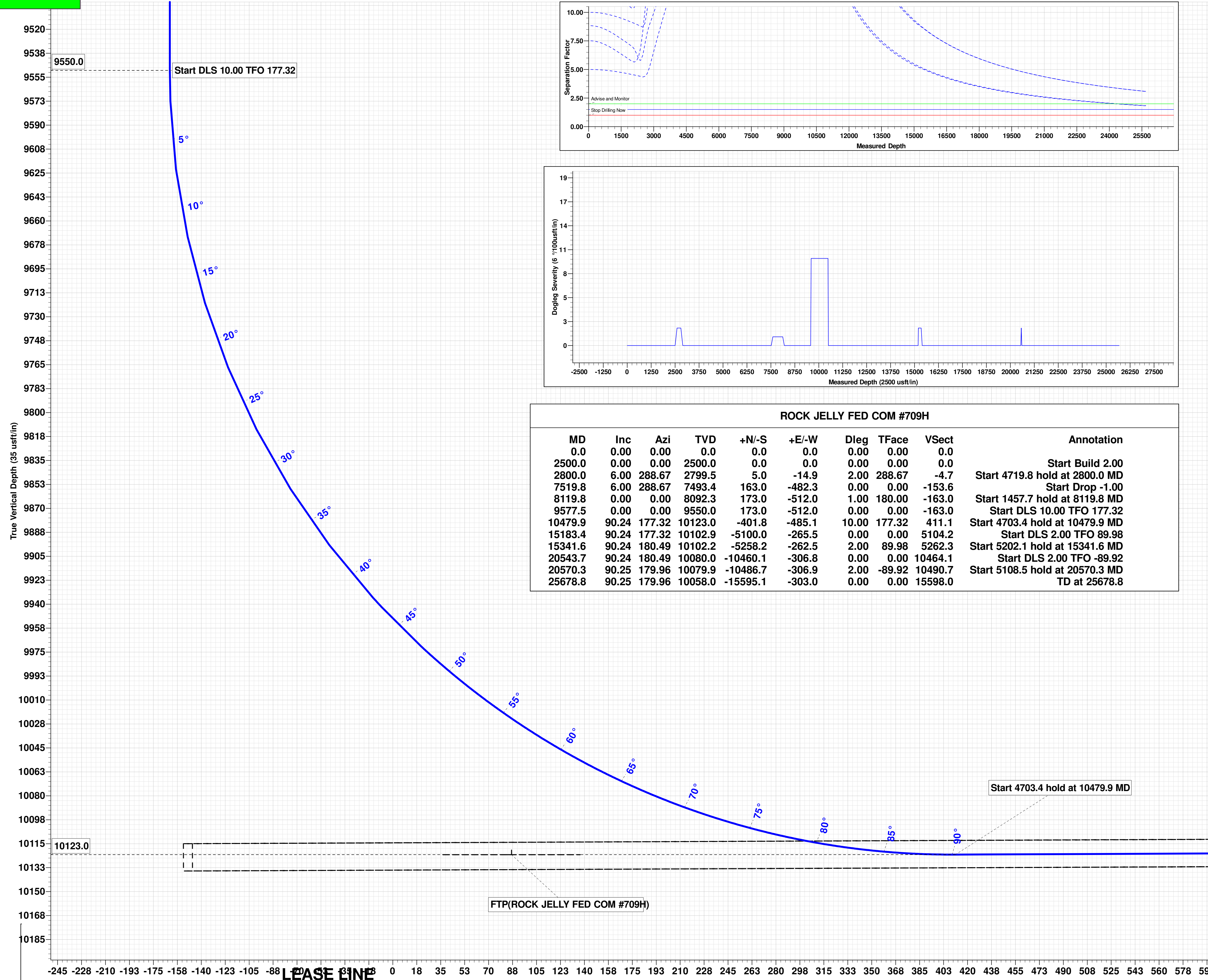
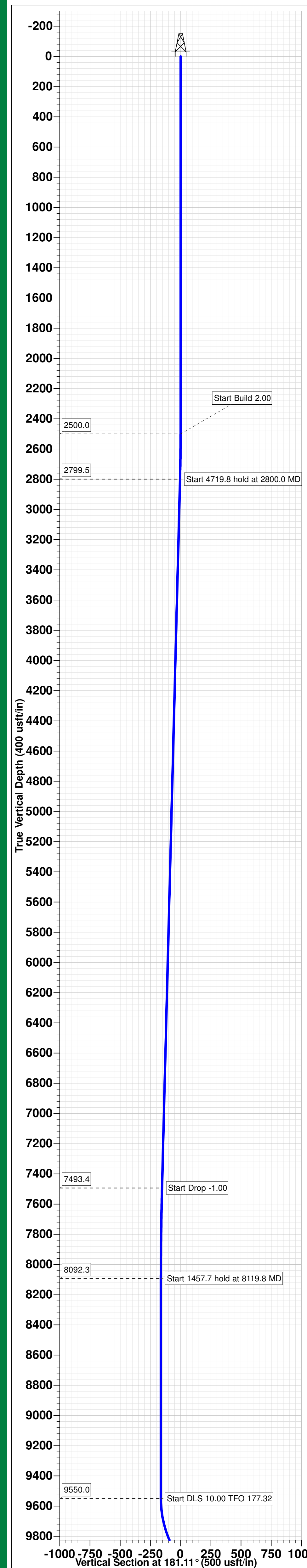
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP(ROCK JELLY FED COM #709H)	10058.0	-15464.9	-304.7	376881.60	613283.40	32° 2' 8.286 N	103° 58' 3.923 W
PBHL(ROCK JELLY FED COM #709H)	10058.0	-15595.1	-303.0	376751.40	613285.10	32° 2' 6.998 N	103° 58' 3.908 W
POI#2(ROCK JELLY FED COM #709H)	10080.0	-10460.1	-306.8	381886.41	613281.31	32° 2' 57.816 N	103° 58' 3.750 W
POI#1(ROCK JELLY FED COM #709H)	10102.9	-5100.0	-265.5	387246.49	613322.61	32° 3' 50.861 N	103° 58' 3.059 W
FTP(ROCK JELLY FED COM #709H)	10123.0	-77.0	-502.0	392269.50	613086.10	32° 4' 40.578 N	103° 58' 5.610 W



ROCK JELLY FED COM #709H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2800.0	6.00	288.67	2799.5	5.0	-14.9	2.00	288.67	-4.7	Start 4719.8 hold at 2800.0 MD
7519.8	6.00	288.67	7493.4	163.0	-482.3	0.00	0.00	-153.6	Start Drop -1.00
8119.8	0.00	0.00	8092.3	173.0	-512.0	1.00	180.00	-163.0	Start 1457.7 hold at 8119.8 MD
9577.5	0.00	0.00	9550.0	173.0	-512.0	0.00	0.00	-163.0	Start DLS 10.00 TFO 177.32
10479.9	90.24	177.32	10123.0	-401.8	-485.1	10.00	177.32	411.1	Start 4703.4 hold at 10479.9 MD
15183.4	90.24	177.32	10102.9	-5100.0	-265.5	0.00	0.00	5104.2	Start DLS 2.00 TFO 89.98
15341.6	90.24	180.49	10102.2	-5258.2	-262.5	2.00	89.98	5262.3	Start 5202.1 hold at 15341.6 MD
20543.7	90.24	180.49	10080.0	-10460.1	-306.8	0.00	0.00	10464.1	Start DLS 2.00 TFO -89.92
20570.3	90.25	179.96	10079.9	-10486.7	-306.9	2.00	-89.92	10490.7	Start 5108.5 hold at 20570.3 MD
25678.8	90.25	179.96	10058.0	-15595.1	-303.0	0.00	0.00	15598.0	TD at 25678.8



TRGT WNDW: 10' ABOVE/BELOW

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 709H
SURFACE HOLE FOOTAGE:	255'/N & 1085'/E
BOTTOM HOLE FOOTAGE:	200'/S & 1590'/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

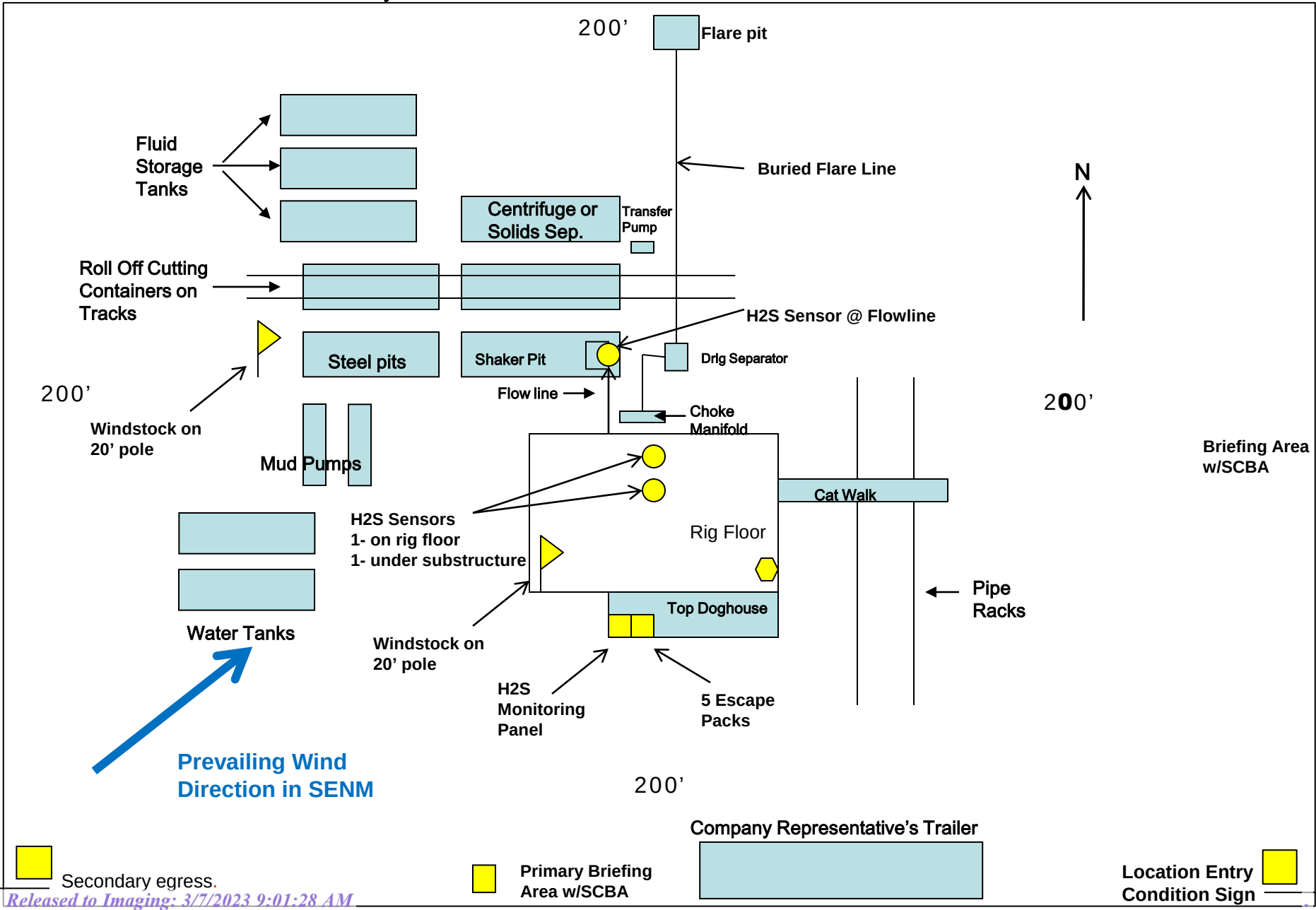
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location 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 190755

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 190755
	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