

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☒ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		5. Lease Serial No. NMNM013997 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. ROCK JELLY FEDERAL COM 707H 9. API Well No. 30-015-53474
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory /PURPLE SAGE (WOLFCAMP) GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 3/T26S/R29E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 1 / 255 FNL / 1025 FEL / LAT 32.07827 / LONG -103.966893 At proposed prod. zone SESE / 200 FSL / 750 FEL / LAT 32.035294 / LONG -103.965524		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 12 miles 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 1920.0		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 420 feet 19. Proposed Depth 10068 feet / 25724 feet 20. BLM/BIA Bond No. in file FED:
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2978 feet 22. Approximate date work will start* 07/01/2022 23. Estimated duration 20 days		24. Attachments

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 02/21/2023

Additional Operator Remarks

Location of Well

0. SHL: LOT 1 / 255 FNL / 1025 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.07827 / LONG: -103.966893 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 1319 FSL / 750 FEL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.056871 / LONG: -103.965761 (TVD: 10107 feet, MD: 17786 feet)
PPP: NENE / 1 FNL / 750 FEL / TWSP: 26S / RANGE: 29E / SECTION: 10 / LAT: 32.064238 / LONG: -103.965842 (TVD: 10120 feet, MD: 15146 feet)
PPP: NESE / 1319 FSL / 750 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.071601 / LONG: -103.965923 (TVD: 10133 feet, MD: 12506 feet)
PPP: LOT 1 / 330 FNL / 750 FEL / TWSP: 26S / RANGE: 29E / SECTION: 3 / LAT: 32.078064 / LONG: -103.965994 (TVD: 10072 feet, MD: 10195 feet)
BHL: SESE / 200 FSL / 750 FEL / TWSP: 26S / RANGE: 29E / SECTION: 15 / LAT: 32.035294 / LONG: -103.965524 (TVD: 10068 feet, MD: 25724 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- 53474	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329756	Property Name ROCK JELLY FEDERAL COM	Well Number 707H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2978.1'

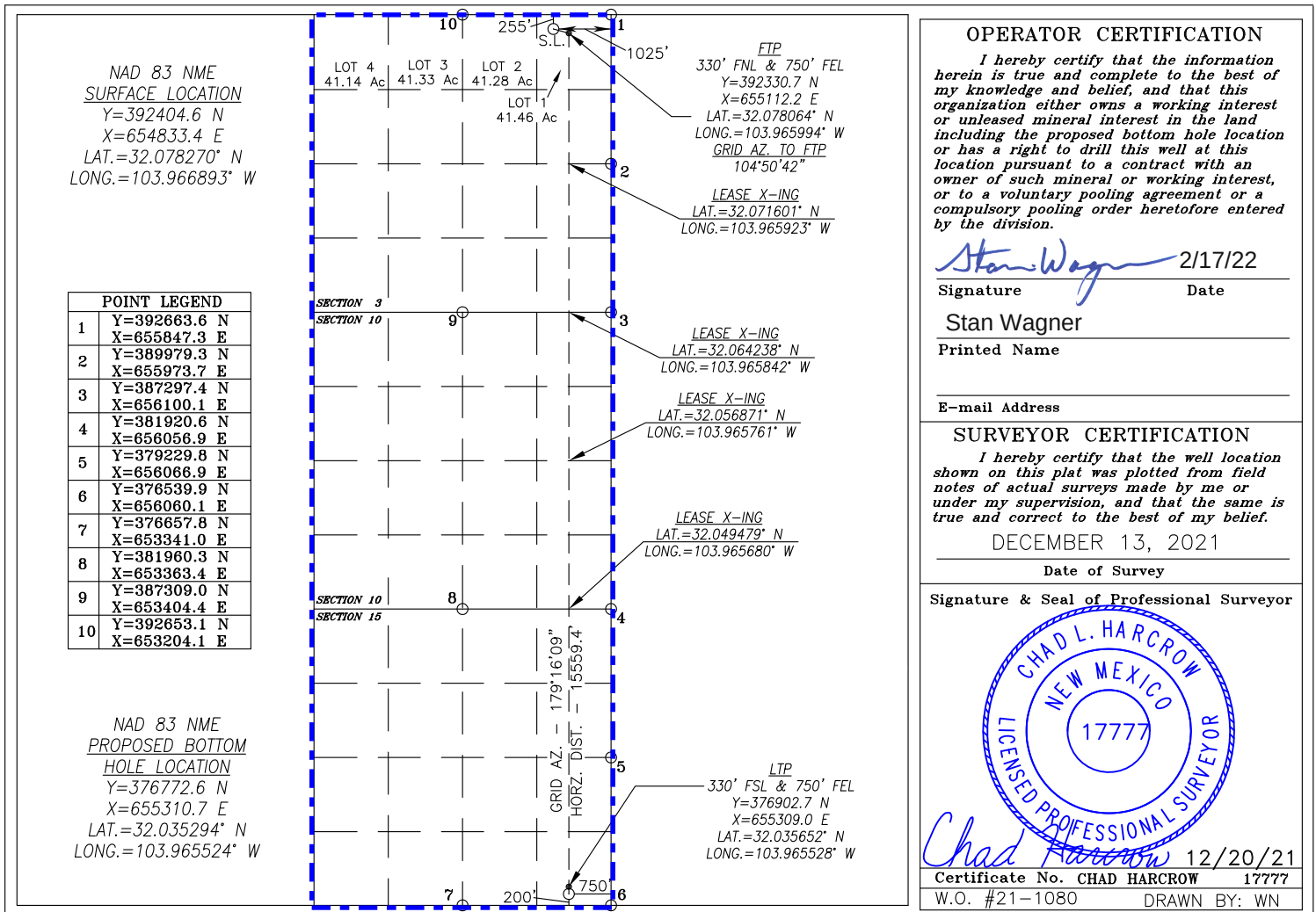
Surface Location

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	1025	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	26-S	29-E		200	SOUTH	750	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

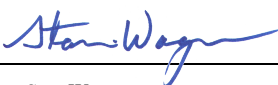
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 707H

1. Geologic Formations

TVD of target	10,143' EOL	Pilot hole depth	NA
MD at TD:	25,724'	Deepest expected fresh water:	78'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	558	Water	
Top of Salt	703	Salt	
Base of Salt	2826	Salt	
Lamar	3052	Salt Water	
Bell Canyon	3094	Salt Water	
Cherry Canyon	3951	Oil/Gas	
Brushy Canyon	5241	Oil/Gas	
Bone Spring Lime	6808	Oil/Gas	
1st Bone Spring Sand	7771	Oil/Gas	
2nd Bone Spring Sand	8373	Oil/Gas	
3rd Bone Spring Sand	9668	Oil/Gas	
Wolfcamp A	10033	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	25,724	5.5"	23	P110 RY	W 441	2.46	2.96	3.55	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 707H

	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 707H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	310	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	680	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	415	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1582	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 707H

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 707H

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
---	-----------------------------

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 707H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6595 psi at 10143' TVD
Abnormal Temperature	NO 160 Deg. F.

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

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

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

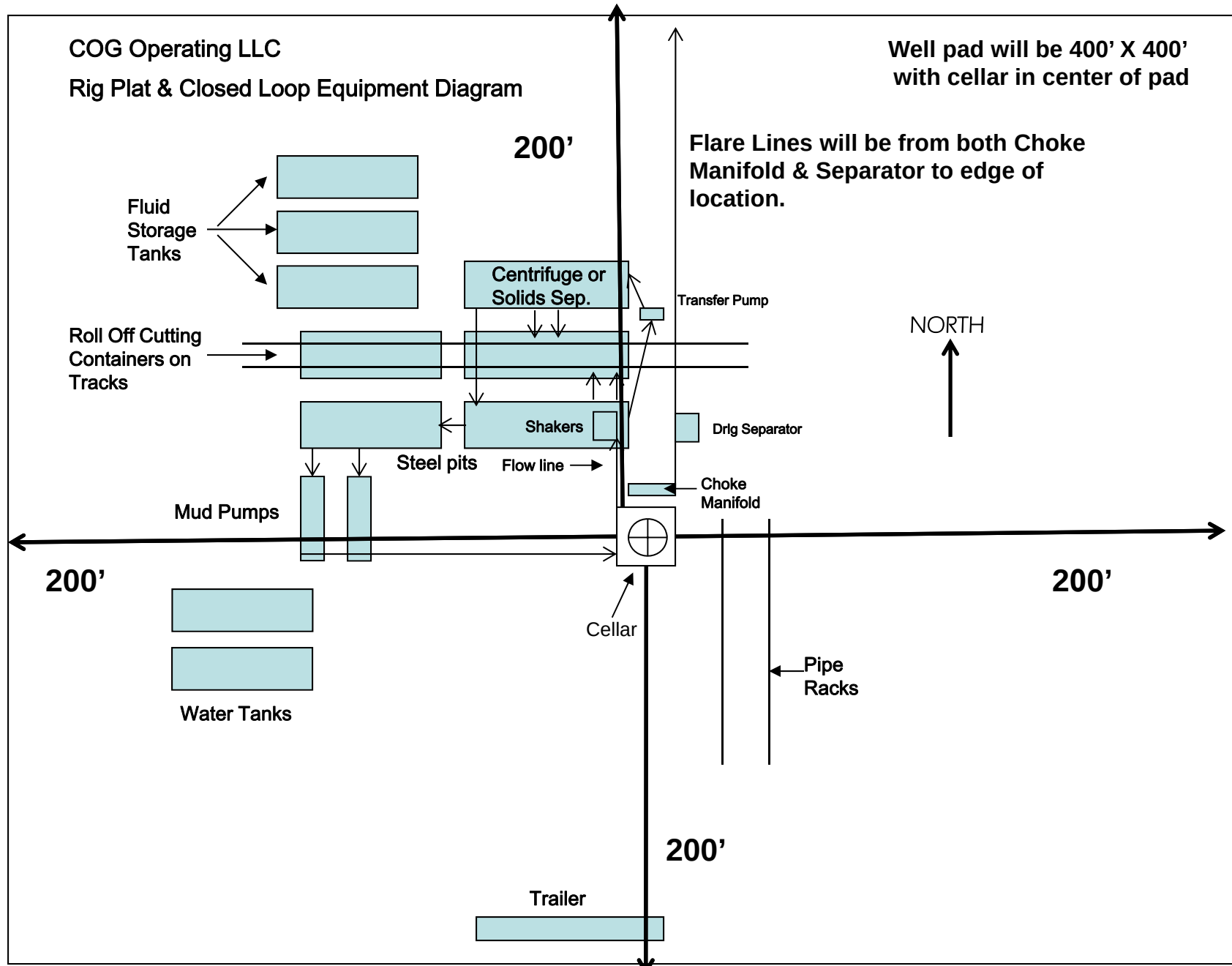


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #707H

OWB

PWP1

Anticollision Report

18 January, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	1/18/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,583.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,583.0	25,724.6	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)						
PECOS EAST FEDERAL COM 22 14H - OWB - AWP	25,724.6	9,948.3	972.3	847.8	7.808	CC, ES, SF
ROCK JELLY FED COM #701H - OWB - PWP1	2,000.0	1,999.9	55.3	47.8	7.402	CC, ES, SF
ROCK JELLY FED COM #702H - OWB - PWP1	2,000.0	1,999.7	76.7	69.6	10.870	CC, ES, SF
ROCK JELLY FED COM #706H - OWB - PWP1	1,916.6	1,916.8	45.0	37.3	5.822	CC
ROCK JELLY FED COM #706H - OWB - PWP1	2,000.0	2,000.2	45.0	37.2	5.718	ES
ROCK JELLY FED COM #706H - OWB - PWP1	25,724.6	26,016.3	488.7	222.0	1.832	Advise and Monitor, SF
ROCK JELLY FED COM #708H - OWB - PWP1	2,500.0	2,499.6	30.0	23.1	4.349	CC, ES
ROCK JELLY FED COM #708H - OWB - PWP1	25,700.0	25,930.7	483.8	216.7	1.811	Advise and Monitor, SF
ROCK JELLY FED COM #709H - OWB - PWP1	2,500.0	2,499.4	60.0	53.1	8.698	CC, ES
ROCK JELLY FED COM #709H - OWB - PWP1	25,700.0	25,678.8	839.9	567.6	3.084	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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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)						
PECOS EAST FEDERAL COM 22 14H - OWB - AWP	25,724.6	9,948.3	972.3	847.8	7.808	CC, ES, SF
ROCK JELLY FED COM #701H - OWB - PWP1	25,724.6	25,952.6				Out of Range @TD
ROCK JELLY FED COM #702H - OWB - PWP1	25,724.6	25,738.0				Out of Range @TD
ROCK JELLY FED COM #706H - OWB - PWP1	25,724.6	26,016.3	488.7	222.0	1.832	Advise and Monitor, SF
ROCK JELLY FED COM #708H - OWB - PWP1	25,724.6	25,935.7	484.2	217.2	1.814	Advise and Monitor
ROCK JELLY FED COM #709H - OWB - PWP1	25,724.6	25,678.8	840.6	568.4	3.088	

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - PECOS EAST FEDERAL COM 22 14H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 156-MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
25,700.0	10,068.1	9,947.8	9,914.6	136.3	37.0	-84.99	-16,385.1	1,088.8	991.5	868.6	122.89	8.069		
25,724.6	10,068.0	9,948.3	9,915.1	136.5	37.0	-85.03	-16,385.1	1,088.9	972.3	847.8	124.53	7.808	CC, ES, SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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	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)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-35.65	44.9	-32.2	55.3				
100.0	100.0	99.9	99.9	3.0	3.0	-35.65	44.9	-32.2	55.3	49.3	6.00	9.208	
200.0	200.0	199.9	199.9	3.0	3.0	-35.65	44.9	-32.2	55.3	49.2	6.01	9.196	
300.0	300.0	299.9	299.9	3.0	3.0	-35.65	44.9	-32.2	55.3	49.2	6.02	9.171	
400.0	400.0	399.9	399.9	3.0	3.0	-35.65	44.9	-32.2	55.3	49.2	6.05	9.133	
500.0	500.0	499.9	499.9	3.1	3.1	-35.65	44.9	-32.2	55.3	49.2	6.08	9.083	
600.0	600.0	599.9	599.9	3.1	3.1	-35.65	44.9	-32.2	55.3	49.1	6.13	9.021	
700.0	700.0	699.9	699.9	3.1	3.1	-35.65	44.9	-32.2	55.3	49.1	6.18	8.947	
800.0	800.0	799.9	799.9	3.2	3.2	-35.65	44.9	-32.2	55.3	49.0	6.23	8.864	
900.0	900.0	899.9	899.9	3.2	3.2	-35.65	44.9	-32.2	55.3	49.0	6.30	8.771	
1,000.0	1,000.0	999.9	999.9	3.2	3.2	-35.65	44.9	-32.2	55.3	48.9	6.37	8.670	
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	-35.65	44.9	-32.2	55.3	48.8	6.45	8.561	
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	-35.65	44.9	-32.2	55.3	48.7	6.54	8.446	
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	-35.65	44.9	-32.2	55.3	48.6	6.64	8.325	
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	-35.65	44.9	-32.2	55.3	48.5	6.74	8.200	
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	-35.65	44.9	-32.2	55.3	48.4	6.85	8.072	
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	-35.65	44.9	-32.2	55.3	48.3	6.96	7.941	
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	-35.65	44.9	-32.2	55.3	48.2	7.08	7.807	
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	-35.65	44.9	-32.2	55.3	48.1	7.20	7.673	
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	-35.65	44.9	-32.2	55.3	47.9	7.33	7.537	
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	-35.65	44.9	-32.2	55.3	47.8	7.46	7.402 CC, ES, SF	
2,100.0	2,100.0	2,098.6	2,098.5	4.0	4.0	-36.90	45.1	-33.9	56.4	48.9	7.57	7.457	
2,200.0	2,200.0	2,197.0	2,196.8	4.1	4.0	-40.36	45.8	-38.9	60.2	52.5	7.62	7.899	
2,300.0	2,300.0	2,295.0	2,294.4	4.2	4.1	-45.23	46.9	-47.2	66.8	59.2	7.62	8.764	
2,400.0	2,400.0	2,392.2	2,391.0	4.3	4.1	-50.54	48.4	-58.8	76.6	69.1	7.60	10.090	
2,500.0	2,500.0	2,488.6	2,486.2	4.4	4.2	-55.58	50.3	-73.4	90.0	82.5	7.57	11.894	
2,600.0	2,600.0	2,586.5	2,582.7	4.5	4.2	-117.16	52.5	-90.2	106.6	99.1	7.53	14.155	
2,700.0	2,699.8	2,684.2	2,678.8	4.5	4.3	-121.91	54.7	-107.1	125.6	118.1	7.48	16.782	
2,750.0	2,749.7	2,732.7	2,726.7	4.6	4.3	-124.19	55.8	-115.4	136.1	128.6	7.47	18.221	
2,800.0	2,799.5	2,781.2	2,774.4	4.6	4.3	-126.44	56.9	-123.8	147.1	139.6	7.46	19.702	
2,900.0	2,899.1	2,878.2	2,869.9	4.7	4.4	-130.05	59.1	-140.5	169.5	162.0	7.49	22.637	
3,000.0	2,998.7	2,975.1	2,965.4	4.8	4.4	-132.82	61.3	-157.2	192.4	184.9	7.54	25.510	
3,100.0	3,098.4	3,072.1	3,060.9	4.8	4.5	-135.01	63.5	-173.9	215.7	208.1	7.62	28.300	
3,200.0	3,198.0	3,169.0	3,156.3	4.9	4.6	-136.76	65.6	-190.5	239.2	231.5	7.72	30.993	
3,300.0	3,297.6	3,266.0	3,251.8	5.0	4.7	-138.20	67.8	-207.2	262.9	255.1	7.83	33.586	
3,400.0	3,397.2	3,363.0	3,347.3	5.1	4.7	-139.41	70.0	-223.9	286.8	278.8	7.95	36.073	
3,500.0	3,496.8	3,459.9	3,442.8	5.2	4.8	-140.43	72.2	-240.6	310.7	302.6	8.08	38.456	
3,600.0	3,596.4	3,556.9	3,538.3	5.2	4.9	-141.30	74.4	-257.3	334.7	326.5	8.22	40.733	
3,700.0	3,696.1	3,653.8	3,633.8	5.3	5.0	-142.06	76.6	-274.0	358.8	350.4	8.36	42.908	
3,800.0	3,795.7	3,750.8	3,729.3	5.4	5.1	-142.72	78.8	-290.7	382.9	374.4	8.51	44.982	
3,900.0	3,895.3	3,847.8	3,824.7	5.5	5.2	-143.30	80.9	-307.4	407.1	398.4	8.67	46.957	
4,000.0	3,994.9	3,944.7	3,920.2	5.6	5.3	-143.82	83.1	-324.1	431.3	422.4	8.83	48.839	
4,100.0	4,094.5	4,041.7	4,015.7	5.7	5.4	-144.28	85.3	-340.8	455.5	446.5	9.00	50.629	
4,200.0	4,194.2	4,138.6	4,111.2	5.8	5.4	-144.70	87.5	-357.5	479.7	470.6	9.17	52.332	
4,300.0	4,293.8	4,235.6	4,206.7	5.9	5.5	-145.07	89.7	-374.2	504.0	494.7	9.34	53.951	
4,400.0	4,393.4	4,332.5	4,302.2	6.0	5.6	-145.42	91.9	-390.9	528.3	518.8	9.52	55.490	
4,500.0	4,493.0	4,429.5	4,397.7	6.1	5.8	-145.73	94.1	-407.6	552.6	542.9	9.70	56.953	
4,600.0	4,592.6	4,526.5	4,493.1	6.2	5.9	-146.01	96.3	-424.3	576.9	567.1	9.89	58.343	
4,700.0	4,692.3	4,623.4	4,588.6	6.3	6.0	-146.27	98.4	-441.0	601.3	591.2	10.08	59.665	
4,800.0	4,791.9	4,720.4	4,684.1	6.4	6.1	-146.52	100.6	-457.7	625.6	615.4	10.27	60.921	
4,900.0	4,891.5	4,817.3	4,779.6	6.5	6.2	-146.74	102.8	-474.3	650.0	639.5	10.46	62.114	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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 Vertical	Measured Vertical	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)				
5,000.0	4,991.1	4,914.3	4,875.1	6.6	6.3	-146.95	105.0	-491.0	674.4	663.7	10.66	63.249		
5,100.0	5,090.7	5,011.2	4,970.6	6.7	6.4	-147.14	107.2	-507.7	698.7	687.9	10.86	64.328		
5,200.0	5,190.4	5,108.2	5,066.0	6.8	6.5	-147.32	109.4	-524.4	723.1	712.0	11.06	65.353		
5,300.0	5,290.0	5,205.2	5,161.5	6.9	6.6	-147.49	111.6	-541.1	747.5	736.2	11.27	66.329		
5,400.0	5,389.6	5,302.1	5,257.0	7.0	6.7	-147.65	113.7	-557.8	771.9	760.4	11.48	67.257		
5,500.0	5,489.2	5,399.1	5,352.5	7.2	6.9	-147.79	115.9	-574.5	796.3	784.6	11.69	68.140		
5,600.0	5,588.8	5,496.0	5,448.0	7.3	7.0	-147.93	118.1	-591.2	820.7	808.8	11.90	68.981		
5,700.0	5,688.5	5,593.0	5,543.5	7.4	7.1	-148.07	120.3	-607.9	845.1	833.0	12.11	69.781		
5,800.0	5,788.1	5,690.0	5,639.0	7.5	7.2	-148.19	122.5	-624.6	869.5	857.2	12.33	70.543		
5,900.0	5,887.7	5,786.9	5,734.4	7.6	7.3	-148.31	124.7	-641.3	893.9	881.4	12.54	71.269		
6,000.0	5,987.3	5,883.9	5,829.9	7.7	7.5	-148.42	126.9	-658.0	918.3	905.6	12.76	71.961		
6,063.1	6,050.2	5,945.1	5,890.2	7.8	7.6	-148.48	128.2	-668.5	933.8	920.9	12.90	72.380		
6,100.0	6,086.9	5,980.9	5,925.4	7.8	7.6	-148.57	129.1	-674.7	942.7	929.7	12.98	72.613		
6,200.0	6,186.7	6,078.1	6,021.2	7.9	7.7	-148.74	131.2	-691.4	965.8	952.6	13.20	73.156		
6,300.0	6,286.5	6,175.7	6,117.4	8.1	7.9	-148.85	133.4	-708.2	987.6	974.1	13.42	73.583		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		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)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-54.24	44.8	-62.2	76.7				
100.0	100.0	99.7	99.7	3.0	3.0	-54.24	44.8	-62.2	76.7	70.7	6.00	12.775	
200.0	200.0	199.7	199.7	3.0	3.0	-54.24	44.8	-62.2	76.7	70.6	6.01	12.763	
300.0	300.0	299.7	299.7	3.0	3.0	-54.24	44.8	-62.2	76.7	70.6	6.02	12.739	
400.0	400.0	399.7	399.7	3.0	3.0	-54.24	44.8	-62.2	76.7	70.6	6.03	12.702	
500.0	500.0	499.7	499.7	3.1	3.1	-54.24	44.8	-62.2	76.7	70.6	6.06	12.653	
600.0	600.0	599.7	599.7	3.1	3.1	-54.24	44.8	-62.2	76.7	70.6	6.09	12.592	
700.0	700.0	699.7	699.7	3.1	3.1	-54.24	44.8	-62.2	76.7	70.5	6.12	12.520	
800.0	800.0	799.7	799.7	3.2	3.2	-54.24	44.8	-62.2	76.7	70.5	6.16	12.437	
900.0	900.0	899.7	899.7	3.2	3.2	-54.24	44.8	-62.2	76.7	70.4	6.21	12.344	
1,000.0	1,000.0	999.7	999.7	3.2	3.2	-54.24	44.8	-62.2	76.7	70.4	6.26	12.241	
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	-54.24	44.8	-62.2	76.7	70.3	6.32	12.130	
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	-54.24	44.8	-62.2	76.7	70.3	6.38	12.011	
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	-54.24	44.8	-62.2	76.7	70.2	6.45	11.885	
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	-54.24	44.8	-62.2	76.7	70.1	6.52	11.752	
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	-54.24	44.8	-62.2	76.7	70.1	6.60	11.614	
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	-54.24	44.8	-62.2	76.7	70.0	6.68	11.472	
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	-54.24	44.8	-62.2	76.7	69.9	6.77	11.326	
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	-54.24	44.8	-62.2	76.7	69.8	6.86	11.176	
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	-54.24	44.8	-62.2	76.7	69.7	6.95	11.024	
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	-54.24	44.8	-62.2	76.7	69.6	7.05	10.870 CC, ES, SF	
2,100.0	2,100.0	2,097.4	2,097.4	4.0	4.0	-54.85	45.0	-63.8	78.1	71.0	7.14	10.938	
2,200.0	2,200.0	2,194.9	2,194.7	4.1	4.0	-56.57	45.4	-68.8	82.6	75.4	7.21	11.455	
2,300.0	2,300.0	2,291.9	2,291.4	4.2	4.1	-59.05	46.2	-77.0	90.2	82.9	7.25	12.429	
2,400.0	2,400.0	2,388.3	2,387.1	4.3	4.1	-61.88	47.2	-88.4	101.0	93.7	7.29	13.858	
2,500.0	2,500.0	2,483.8	2,481.5	4.4	4.1	-64.71	48.6	-102.8	115.1	107.8	7.32	15.737	
2,600.0	2,600.0	2,577.9	2,574.0	4.5	4.2	-124.42	50.1	-120.0	133.6	126.3	7.32	18.255	
2,700.0	2,699.8	2,673.8	2,667.8	4.5	4.2	-127.79	52.0	-139.8	156.7	149.3	7.32	21.412	
2,750.0	2,749.7	2,721.9	2,714.8	4.6	4.3	-129.44	52.9	-149.8	169.2	161.9	7.32	23.107	
2,800.0	2,799.5	2,769.9	2,761.8	4.6	4.3	-131.14	53.8	-159.7	182.2	174.9	7.34	24.830	
2,900.0	2,899.1	2,865.9	2,855.7	4.7	4.4	-133.91	55.7	-179.6	208.6	201.2	7.39	28.217	
3,000.0	2,998.7	2,961.9	2,949.6	4.8	4.4	-136.06	57.5	-199.5	235.4	227.9	7.47	31.505	
3,100.0	3,098.4	3,058.0	3,043.6	4.8	4.5	-137.77	59.3	-219.3	262.3	254.8	7.56	34.680	
3,200.0	3,198.0	3,154.0	3,137.5	4.9	4.6	-139.16	61.2	-239.2	289.5	281.8	7.67	37.735	
3,300.0	3,297.6	3,250.0	3,231.4	5.0	4.6	-140.32	63.0	-259.1	316.8	309.0	7.79	40.666	
3,400.0	3,397.2	3,346.0	3,325.4	5.1	4.7	-141.29	64.8	-279.0	344.2	336.3	7.92	43.473	
3,500.0	3,496.8	3,442.1	3,419.3	5.2	4.8	-142.11	66.7	-298.9	371.7	363.6	8.05	46.156	
3,600.0	3,596.4	3,538.1	3,513.2	5.2	4.9	-142.83	68.5	-318.7	399.2	391.0	8.19	48.716	
3,700.0	3,696.1	3,634.1	3,607.1	5.3	5.0	-143.45	70.4	-338.6	426.8	418.4	8.34	51.156	
3,800.0	3,795.7	3,730.1	3,701.1	5.4	5.1	-144.00	72.2	-358.5	454.4	445.9	8.50	53.480	
3,900.0	3,895.3	3,826.2	3,795.0	5.5	5.2	-144.48	74.0	-378.4	482.1	473.4	8.66	55.691	
4,000.0	3,994.9	3,922.2	3,888.9	5.6	5.3	-144.91	75.9	-398.3	509.7	500.9	8.82	57.793	
4,100.0	4,094.5	4,018.2	3,982.8	5.7	5.4	-145.30	77.7	-418.1	537.5	528.5	8.99	59.791	
4,200.0	4,194.2	4,114.2	4,076.8	5.8	5.5	-145.65	79.5	-438.0	565.2	556.0	9.16	61.689	
4,300.0	4,293.8	4,210.2	4,170.7	5.9	5.6	-145.97	81.4	-457.9	592.9	583.6	9.34	63.491	
4,400.0	4,393.4	4,306.3	4,264.6	6.0	5.7	-146.26	83.2	-477.8	620.7	611.2	9.52	65.201	
4,500.0	4,493.0	4,402.3	4,358.5	6.1	5.8	-146.52	85.1	-497.7	648.5	638.8	9.70	66.825	
4,600.0	4,592.6	4,498.3	4,452.5	6.2	5.9	-146.76	86.9	-517.5	676.3	666.4	9.89	68.366	
4,700.0	4,692.3	4,594.3	4,546.4	6.3	6.0	-146.98	88.7	-537.4	704.1	694.0	10.08	69.829	
4,800.0	4,791.9	4,690.4	4,640.3	6.4	6.1	-147.19	90.6	-557.3	731.9	721.6	10.28	71.217	
4,900.0	4,891.5	4,786.4	4,734.2	6.5	6.2	-147.38	92.4	-577.2	759.7	749.2	10.47	72.535	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9759-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
5,000.0	4,991.1	4,882.4	4,828.2	6.6	6.4	-147.56	94.3	-597.1	787.5	776.8	10.67	73.786	
5,100.0	5,090.7	4,978.4	4,922.1	6.7	6.5	-147.72	96.1	-616.9	815.3	804.5	10.87	74.974	
5,200.0	5,190.4	5,074.5	5,016.0	6.8	6.6	-147.88	97.9	-636.8	843.2	832.1	11.08	76.101	
5,300.0	5,290.0	5,170.5	5,109.9	6.9	6.7	-148.02	99.8	-656.7	871.0	859.7	11.29	77.172	
5,400.0	5,389.6	5,266.5	5,203.9	7.0	6.9	-148.16	101.6	-676.6	898.8	887.4	11.50	78.190	
5,500.0	5,489.2	5,362.5	5,297.8	7.2	7.0	-148.29	103.4	-696.5	926.7	915.0	11.71	79.156	
5,600.0	5,588.8	5,458.6	5,391.7	7.3	7.1	-148.41	105.3	-716.3	954.6	942.6	11.92	80.075	
5,700.0	5,688.5	5,554.6	5,485.6	7.4	7.3	-148.52	107.1	-736.2	982.4	970.3	12.14	80.948	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9810-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.2	0.2	3.0	3.0	3.0	-2.67	45.0	-2.1	45.0				
100.0	100.0	100.2	100.2	3.0	3.0	3.0	-2.67	45.0	-2.1	45.0	39.0	6.00	7.507	
200.0	200.0	200.2	200.2	3.0	3.0	3.0	-2.67	45.0	-2.1	45.0	39.0	6.01	7.494	
300.0	300.0	300.2	300.2	3.0	3.0	3.0	-2.67	45.0	-2.1	45.0	39.0	6.03	7.468	
400.0	400.0	400.2	400.2	3.0	3.0	3.0	-2.67	45.0	-2.1	45.0	39.0	6.07	7.427	
500.0	500.0	500.2	500.2	3.1	3.1	3.1	-2.67	45.0	-2.1	45.0	38.9	6.11	7.373	
600.0	600.0	600.2	600.2	3.1	3.1	3.1	-2.67	45.0	-2.1	45.0	38.9	6.16	7.307	
700.0	700.0	700.2	700.2	3.1	3.1	3.1	-2.67	45.0	-2.1	45.0	38.8	6.23	7.230	
800.0	800.0	800.2	800.2	3.2	3.2	3.2	-2.67	45.0	-2.1	45.0	38.7	6.31	7.143	
900.0	900.0	900.2	900.2	3.2	3.2	3.2	-2.67	45.0	-2.1	45.0	38.7	6.39	7.047	
1,000.0	1,000.0	1,000.2	1,000.2	3.2	3.2	3.2	-2.67	45.0	-2.1	45.0	38.6	6.49	6.943	
1,100.0	1,100.0	1,100.2	1,100.2	3.3	3.3	3.3	-2.67	45.0	-2.1	45.0	38.5	6.59	6.832	
1,200.0	1,200.0	1,200.2	1,200.2	3.4	3.4	3.4	-2.67	45.0	-2.1	45.0	38.3	6.71	6.717	
1,300.0	1,300.0	1,300.2	1,300.2	3.4	3.4	3.4	-2.67	45.0	-2.1	45.0	38.2	6.83	6.597	
1,400.0	1,400.0	1,400.2	1,400.2	3.5	3.5	3.5	-2.67	45.0	-2.1	45.0	38.1	6.96	6.474	
1,500.0	1,500.0	1,500.2	1,500.2	3.5	3.5	3.5	-2.67	45.0	-2.1	45.0	38.0	7.10	6.349	
1,600.0	1,600.0	1,600.2	1,600.2	3.6	3.6	3.6	-2.67	45.0	-2.1	45.0	37.8	7.24	6.223	
1,700.0	1,700.0	1,700.2	1,700.2	3.7	3.7	3.7	-2.67	45.0	-2.1	45.0	37.7	7.39	6.096	
1,800.0	1,800.0	1,800.2	1,800.2	3.8	3.8	3.8	-2.67	45.0	-2.1	45.0	37.5	7.55	5.969	
1,900.0	1,900.0	1,900.2	1,900.2	3.9	3.9	3.9	-2.67	45.0	-2.1	45.0	37.3	7.71	5.843	
1,916.6	1,916.6	1,916.8	1,916.8	3.9	3.9	3.9	-2.67	45.0	-2.1	45.0	37.3	7.74	5.822 CC	
2,000.0	2,000.0	2,000.2	2,000.2	3.9	3.9	3.9	-2.67	45.0	-2.1	45.0	37.2	7.88	5.718 ES	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	4.0	-0.49	45.3	-0.4	45.3	37.3	8.03	5.647	
2,200.0	2,200.0	2,199.4	2,199.3	4.1	4.0	4.0	5.81	46.3	4.7	46.6	38.4	8.15	5.714	
2,300.0	2,300.0	2,298.4	2,297.9	4.2	4.1	4.1	15.34	47.9	13.1	49.8	41.5	8.22	6.055	
2,400.0	2,400.0	2,396.7	2,395.5	4.3	4.1	4.1	26.32	50.2	24.8	56.2	48.0	8.20	6.856	
2,500.0	2,500.0	2,495.7	2,493.5	4.4	4.2	4.2	35.99	52.8	38.4	65.6	57.5	8.13	8.066	
2,600.0	2,600.0	2,595.0	2,591.8	4.5	4.2	4.2	-13.95	55.4	51.9	74.7	66.6	8.11	9.217	
2,700.0	2,699.8	2,694.5	2,690.4	4.5	4.3	4.3	-9.01	58.1	65.5	81.2	73.1	8.13	9.994	
2,750.0	2,749.7	2,744.4	2,739.7	4.6	4.3	4.3	-6.95	59.4	72.3	83.4	75.2	8.15	10.234	
2,800.0	2,799.5	2,794.3	2,789.1	4.6	4.4	4.4	-5.02	60.7	79.2	85.2	77.0	8.17	10.428	
2,900.0	2,899.1	2,894.0	2,887.9	4.7	4.4	4.4	-1.41	63.3	92.8	89.1	80.9	8.22	10.838	
3,000.0	2,998.7	2,993.8	2,986.7	4.8	4.5	4.5	1.89	65.9	106.4	93.3	85.0	8.28	11.271	
3,100.0	3,098.4	3,093.6	3,085.5	4.8	4.6	4.6	4.90	68.6	120.1	97.8	89.5	8.35	11.720	
3,200.0	3,198.0	3,193.4	3,184.3	4.9	4.6	4.6	7.63	71.2	133.7	102.6	94.2	8.42	12.180	
3,300.0	3,297.6	3,293.1	3,283.1	5.0	4.7	4.7	10.12	73.8	147.3	107.6	99.1	8.51	12.645	
3,400.0	3,397.2	3,392.9	3,381.9	5.1	4.8	4.8	12.38	76.5	161.0	112.7	104.1	8.60	13.113	
3,500.0	3,496.8	3,492.7	3,480.7	5.2	4.9	4.9	14.44	79.1	174.6	118.0	109.3	8.69	13.578	
3,600.0	3,596.4	3,592.5	3,579.6	5.2	5.0	5.0	16.32	81.7	188.2	123.5	114.7	8.80	14.039	
3,700.0	3,696.1	3,692.2	3,678.4	5.3	5.0	5.0	18.05	84.4	201.9	129.1	120.1	8.90	14.493	
3,800.0	3,795.7	3,792.0	3,777.2	5.4	5.1	5.1	19.63	87.0	215.5	134.7	125.7	9.02	14.940	
3,900.0	3,895.3	3,891.8	3,876.0	5.5	5.2	5.2	21.07	89.6	229.1	140.5	131.4	9.14	15.376	
4,000.0	3,994.9	3,991.5	3,974.8	5.6	5.3	5.3	22.41	92.3	242.8	146.4	137.1	9.26	15.802	
4,100.0	4,094.5	4,091.3	4,073.6	5.7	5.4	5.4	23.64	94.9	256.4	152.3	142.9	9.39	16.216	
4,200.0	4,194.2	4,191.1	4,172.4	5.8	5.5	5.5	24.78	97.5	270.0	158.3	148.8	9.53	16.619	
4,300.0	4,293.8	4,290.9	4,271.2	5.9	5.6	5.6	25.84	100.2	283.7	164.3	154.7	9.66	17.009	
4,400.0	4,393.4	4,390.6	4,370.0	6.0	5.7	5.7	26.82	102.8	297.3	170.5	160.7	9.80	17.386	
4,500.0	4,493.0	4,490.4	4,468.8	6.1	5.8	5.8	27.73	105.4	310.9	176.6	166.7	9.95	17.750	
4,600.0	4,592.6	4,590.2	4,567.6	6.2	5.9	5.9	28.58	108.1	324.6	182.8	172.7	10.10	18.102	
4,700.0	4,692.3	4,690.0	4,666.4	6.3	6.0	6.0	29.37	110.7	338.2	189.0	178.8	10.25	18.441	
4,800.0	4,791.9	4,789.7	4,765.2	6.4	6.1	6.1	30.12	113.3	351.8	195.3	184.9	10.41	18.768	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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)	Between Ellipses (usft)	Separation (usft)	Factor	
4,900.0	4,891.5	4,889.5	4,864.0	6.5	6.2	30.81	116.0	365.5	201.6	191.0	10.56	19.082	
5,000.0	4,991.1	4,989.3	4,962.8	6.6	6.3	31.47	118.6	379.1	207.9	197.2	10.73	19.384	
5,100.0	5,090.7	5,089.0	5,061.6	6.7	6.4	32.09	121.2	392.7	214.3	203.4	10.89	19.674	
5,200.0	5,190.4	5,188.8	5,160.4	6.8	6.5	32.67	123.8	406.4	220.6	209.6	11.06	19.952	
5,300.0	5,290.0	5,288.6	5,259.2	6.9	6.6	33.22	126.5	420.0	227.0	215.8	11.23	20.220	
5,400.0	5,389.6	5,388.4	5,358.0	7.0	6.8	33.73	129.1	433.6	233.4	222.0	11.40	20.476	
5,500.0	5,489.2	5,488.1	5,456.8	7.2	6.9	34.22	131.7	447.3	239.9	228.3	11.58	20.722	
5,600.0	5,588.8	5,587.9	5,555.6	7.3	7.0	34.69	134.4	460.9	246.3	234.6	11.75	20.958	
5,700.0	5,688.5	5,687.7	5,654.4	7.4	7.1	35.13	137.0	474.5	252.8	240.9	11.93	21.184	
5,800.0	5,788.1	5,787.4	5,753.2	7.5	7.2	35.55	139.6	488.2	259.3	247.2	12.12	21.400	
5,900.0	5,887.7	5,887.2	5,852.0	7.6	7.3	35.95	142.3	501.8	265.8	253.5	12.30	21.607	
6,000.0	5,987.3	5,987.0	5,950.8	7.7	7.4	36.33	144.9	515.4	272.3	259.8	12.49	21.806	
6,063.1	6,050.2	6,050.0	6,013.1	7.8	7.5	36.56	146.6	524.0	276.4	263.8	12.60	21.926	
6,100.0	6,086.9	6,086.8	6,049.6	7.8	7.6	36.69	147.5	529.1	278.9	266.2	12.67	22.002	
6,200.0	6,186.7	6,186.5	6,148.3	7.9	7.7	36.90	150.2	542.7	286.6	273.7	12.88	22.259	
6,300.0	6,286.5	6,286.0	6,246.9	8.1	7.8	36.90	152.8	556.3	295.7	282.6	13.09	22.596	
6,400.0	6,386.5	6,385.5	6,345.4	8.2	7.9	36.72	155.4	569.9	306.2	292.9	13.31	23.007	
6,500.0	6,486.4	6,484.7	6,443.7	8.3	8.0	36.38	158.0	583.5	318.2	304.6	13.55	23.485	
6,563.1	6,549.6	6,547.3	6,505.6	8.3	8.1	92.89	159.7	592.0	326.4	312.7	13.69	23.846	
6,600.0	6,586.4	6,583.8	6,541.8	8.4	8.2	92.68	160.6	597.0	331.4	317.6	13.76	24.079	
6,700.0	6,686.4	6,682.8	6,639.9	8.5	8.3	92.14	163.3	610.5	345.0	331.0	13.96	24.702	
6,800.0	6,786.4	6,781.9	6,737.9	8.6	8.4	91.63	165.9	624.1	358.5	344.4	14.17	25.311	
6,900.0	6,886.4	6,883.6	6,838.7	8.7	8.5	91.16	168.5	637.8	372.0	357.6	14.36	25.902	
7,000.0	6,986.4	6,989.7	6,944.0	8.8	8.7	90.75	171.0	650.6	384.0	369.4	14.55	26.390	
7,100.0	7,086.4	7,096.2	7,049.9	8.9	8.8	90.42	173.1	661.5	394.2	379.5	14.74	26.744	
7,200.0	7,186.4	7,203.2	7,156.5	9.0	8.9	90.17	174.8	670.5	402.6	387.7	14.93	26.967	
7,300.0	7,286.4	7,310.4	7,263.5	9.2	9.0	89.97	176.2	677.5	409.2	394.1	15.12	27.061	
7,400.0	7,386.4	7,417.9	7,370.8	9.3	9.1	89.84	177.2	682.6	413.9	398.6	15.31	27.029	
7,500.0	7,486.4	7,525.5	7,478.4	9.4	9.3	89.76	177.8	685.8	416.8	401.3	15.51	26.875	
7,600.0	7,586.4	7,633.2	7,586.1	9.5	9.4	89.73	178.0	686.9	417.9	402.2	15.70	26.620	
7,700.0	7,686.4	7,733.8	7,686.6	9.6	9.5	89.73	178.0	686.9	417.9	402.1	15.80	26.452	
7,800.0	7,786.4	7,833.8	7,786.6	9.7	9.5	89.73	178.0	686.9	417.9	402.0	15.89	26.293	
7,900.0	7,886.4	7,933.8	7,886.6	9.8	9.6	89.73	178.0	686.9	417.9	401.9	15.99	26.135	
8,000.0	7,986.4	8,033.8	7,986.6	10.0	9.7	89.73	178.0	686.9	417.9	401.8	16.09	25.978	
8,100.0	8,086.4	8,133.8	8,086.6	10.1	9.8	89.73	178.0	686.9	417.9	401.7	16.18	25.822	
8,200.0	8,186.4	8,233.8	8,186.6	10.2	9.9	89.73	178.0	686.9	417.9	401.6	16.28	25.667	
8,300.0	8,286.4	8,333.8	8,286.6	10.3	10.0	89.73	178.0	686.9	417.9	401.5	16.38	25.512	
8,400.0	8,386.4	8,433.8	8,386.6	10.4	10.1	89.73	178.0	686.9	417.9	401.4	16.48	25.359	
8,500.0	8,486.4	8,533.8	8,486.6	10.5	10.2	89.73	178.0	686.9	417.9	401.3	16.58	25.206	
8,600.0	8,586.4	8,633.8	8,586.6	10.7	10.3	89.73	178.0	686.9	417.9	401.2	16.68	25.055	
8,700.0	8,686.4	8,733.8	8,686.6	10.8	10.4	89.73	178.0	686.9	417.9	401.1	16.78	24.904	
8,800.0	8,786.4	8,833.8	8,786.6	10.9	10.5	89.73	178.0	686.9	417.9	401.0	16.88	24.755	
8,900.0	8,886.4	8,933.8	8,886.6	11.0	10.6	89.73	178.0	686.9	417.9	400.9	16.98	24.606	
9,000.0	8,986.4	9,033.8	8,986.6	11.1	10.7	89.73	178.0	686.9	417.9	400.8	17.09	24.459	
9,100.0	9,086.4	9,133.8	9,086.6	11.2	10.8	89.73	178.0	686.9	417.9	400.7	17.19	24.312	
9,200.0	9,186.4	9,233.8	9,186.6	11.4	10.9	89.73	178.0	686.9	417.9	400.6	17.29	24.167	
9,300.0	9,286.4	9,333.8	9,286.6	11.5	11.0	89.73	178.0	686.9	417.9	400.5	17.40	24.022	
9,400.0	9,386.4	9,433.8	9,386.6	11.6	11.1	89.73	178.0	686.9	417.9	400.4	17.50	23.879	
9,500.0	9,486.4	9,533.8	9,486.6	11.7	11.2	89.73	178.0	686.9	417.9	400.3	17.61	23.737	
9,583.7	9,570.1	9,617.4	9,570.3	11.8	11.3	89.73	178.0	686.9	417.9	400.2	17.68	23.643	
9,600.0	9,586.4	9,633.8	9,586.6	11.8	11.3	-87.63	178.0	686.9	417.9	400.2	17.69	23.624	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9810-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,650.0	9,636.3	9,683.6	9,636.5	11.8	11.4	-88.14	178.0	686.9	417.8	400.0	17.78	23.498	
9,700.0	9,685.6	9,733.0	9,685.8	11.8	11.4	-89.23	178.0	686.9	417.6	399.6	17.94	23.276	
9,725.6	9,710.6	9,757.9	9,710.8	11.8	11.5	-90.00	178.0	686.9	417.5	399.5	18.05	23.128	
9,750.0	9,734.1	9,781.4	9,734.3	11.8	11.5	-90.85	178.0	686.9	417.6	399.4	18.18	22.971	
9,800.0	9,781.3	9,828.7	9,781.5	11.8	11.5	-92.91	178.0	686.9	418.2	399.7	18.49	22.614	
9,850.0	9,827.0	9,874.4	9,827.3	11.9	11.6	-95.31	178.0	686.9	419.8	400.9	18.88	22.236	
9,900.0	9,870.6	9,923.9	9,876.7	11.9	11.6	-98.00	175.7	687.0	422.7	403.4	19.28	21.921	
9,950.0	9,912.0	9,975.6	9,927.9	12.0	11.6	-100.67	168.7	687.3	426.7	407.0	19.69	21.673	
10,000.0	9,950.8	10,029.8	9,980.7	12.0	11.6	-103.31	156.5	687.9	431.7	411.6	20.11	21.471	
10,050.0	9,986.6	10,087.0	10,034.8	12.1	11.6	-105.89	138.3	688.8	437.7	417.2	20.57	21.279	
10,100.0	10,019.3	10,147.3	10,089.8	12.1	11.6	-108.40	113.3	690.0	444.4	423.3	21.10	21.060	
10,150.0	10,048.6	10,211.3	10,144.7	12.2	11.7	-110.81	80.7	691.5	451.7	429.9	21.74	20.775	
10,200.0	10,074.3	10,279.2	10,198.7	12.2	11.8	-113.09	39.6	693.4	459.1	436.6	22.50	20.407	
10,250.0	10,096.1	10,351.3	10,250.3	12.3	11.8	-115.21	-10.7	695.8	466.4	443.0	23.37	19.958	
10,300.0	10,113.9	10,427.7	10,297.6	12.4	11.9	-117.12	-70.6	698.6	473.3	449.0	24.33	19.454	
10,350.0	10,127.5	10,508.3	10,338.4	12.4	12.1	-118.75	-140.0	701.9	479.4	454.1	25.30	18.944	
10,400.0	10,137.0	10,592.8	10,370.2	12.5	12.2	-120.04	-218.0	705.6	484.3	458.1	26.21	18.478	
10,450.0	10,142.1	10,680.3	10,390.7	12.5	12.3	-120.93	-302.9	709.6	487.7	460.8	26.93	18.108	
10,486.5	10,143.1	10,745.4	10,397.4	12.6	12.4	-121.31	-367.6	712.6	489.2	461.9	27.30	17.921	
10,500.0	10,143.0	10,769.8	10,398.1	12.6	12.5	-121.38	-391.9	713.8	489.4	462.0	27.38	17.872	
10,600.0	10,142.5	10,872.2	10,397.5	12.7	12.7	-121.38	-494.2	718.6	489.4	461.4	28.02	17.465	
10,700.0	10,142.0	10,972.2	10,397.0	12.9	13.0	-121.37	-594.1	723.3	489.5	460.7	28.75	17.025	
10,800.0	10,141.5	11,072.2	10,396.5	13.1	13.3	-121.37	-694.0	728.0	489.5	459.9	29.55	16.563	
10,900.0	10,141.0	11,172.2	10,396.0	13.4	13.7	-121.36	-793.9	732.7	489.5	459.1	30.43	16.087	
11,000.0	10,140.5	11,272.2	10,395.4	13.8	14.2	-121.35	-893.7	737.5	489.5	458.2	31.37	15.604	
11,100.0	10,140.0	11,372.2	10,394.9	14.2	14.7	-121.35	-993.6	742.2	489.5	457.2	32.37	15.122	
11,200.0	10,139.5	11,472.2	10,394.4	14.8	15.3	-121.34	-1,093.5	746.9	489.6	456.1	33.43	14.645	
11,300.0	10,139.1	11,572.2	10,393.9	15.4	15.9	-121.34	-1,193.4	751.6	489.6	455.1	34.54	14.176	
11,400.0	10,138.6	11,672.2	10,393.3	16.0	16.5	-121.33	-1,293.3	756.3	489.6	453.9	35.69	13.719	
11,500.0	10,138.1	11,772.2	10,392.8	16.7	17.2	-121.32	-1,393.2	761.0	489.6	452.8	36.88	13.276	
11,600.0	10,137.6	11,872.2	10,392.3	17.4	17.9	-121.32	-1,493.1	765.7	489.7	451.5	38.11	12.848	
11,700.0	10,137.1	11,972.2	10,391.8	18.1	18.6	-121.31	-1,593.0	770.4	489.7	450.3	39.38	12.436	
11,800.0	10,136.6	12,072.2	10,391.2	18.8	19.3	-121.30	-1,692.8	775.2	489.7	449.0	40.67	12.041	
11,900.0	10,136.1	12,172.2	10,390.7	19.6	20.0	-121.30	-1,792.7	779.9	489.7	447.7	41.99	11.662	
12,000.0	10,135.6	12,272.2	10,390.2	20.3	20.8	-121.29	-1,892.6	784.6	489.8	446.4	43.34	11.300	
12,100.0	10,135.1	12,372.2	10,389.7	21.1	21.5	-121.29	-1,992.5	789.3	489.8	445.1	44.71	10.955	
12,200.0	10,134.6	12,472.2	10,389.1	21.9	22.3	-121.28	-2,092.4	794.0	489.8	443.7	46.10	10.625	
12,300.0	10,134.1	12,572.2	10,388.6	22.7	23.1	-121.27	-2,192.3	798.7	489.8	442.3	47.51	10.310	
12,400.0	10,133.6	12,672.2	10,388.1	23.5	23.8	-121.27	-2,292.2	803.4	489.8	440.9	48.94	10.010	
12,500.0	10,133.2	12,772.2	10,387.6	24.3	24.6	-121.26	-2,392.1	808.1	489.9	439.5	50.38	9.723	
12,600.0	10,132.7	12,872.2	10,387.0	25.1	25.4	-121.26	-2,491.9	812.9	489.9	438.0	51.84	9.450	
12,700.0	10,132.2	12,972.2	10,386.5	25.9	26.2	-121.25	-2,591.8	817.6	489.9	436.6	53.31	9.190	
12,800.0	10,131.7	13,072.2	10,386.0	26.7	27.0	-121.24	-2,691.7	822.3	489.9	435.1	54.79	8.941	
12,900.0	10,131.2	13,172.2	10,385.5	27.5	27.8	-121.24	-2,791.6	827.0	490.0	433.7	56.29	8.704	
13,000.0	10,130.7	13,272.2	10,384.9	28.3	28.6	-121.23	-2,891.5	831.7	490.0	432.2	57.79	8.478	
13,100.0	10,130.2	13,372.2	10,384.4	29.2	29.4	-121.22	-2,991.4	836.4	490.0	430.7	59.31	8.262	
13,200.0	10,129.7	13,472.2	10,383.9	30.0	30.2	-121.22	-3,091.3	841.1	490.0	429.2	60.83	8.055	
13,300.0	10,129.2	13,572.2	10,383.4	30.8	31.1	-121.21	-3,191.2	845.8	490.0	427.7	62.36	7.858	
13,400.0	10,128.7	13,672.2	10,382.8	31.6	31.9	-121.21	-3,291.0	850.6	490.1	426.2	63.90	7.669	
13,500.0	10,128.2	13,772.2	10,382.3	32.5	32.7	-121.20	-3,390.9	855.3	490.1	424.6	65.45	7.488	
13,600.0	10,127.7	13,872.2	10,381.8	33.3	33.5	-121.19	-3,490.8	860.0	490.1	423.1	67.01	7.315	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-Standard Keeper 104, 9810-MWD+IFR1+FDIR					Rule Assigned:							Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis								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			
13,700.0	10,127.3	13,972.2	10,381.3	34.1	34.3	-121.19	-3,590.7	864.7	490.1	421.6	68.57	7.148			
13,800.0	10,126.8	14,072.2	10,380.7	35.0	35.2	-121.18	-3,690.6	869.4	490.2	420.0	70.13	6.989			
13,900.0	10,126.3	14,172.2	10,380.2	35.8	36.0	-121.18	-3,790.5	874.1	490.2	418.5	71.70	6.836			
14,000.0	10,125.8	14,272.2	10,379.7	36.6	36.8	-121.17	-3,890.4	878.8	490.2	416.9	73.28	6.690			
14,100.0	10,125.3	14,372.2	10,379.2	37.5	37.7	-121.16	-3,990.3	883.5	490.2	415.4	74.86	6.549			
14,200.0	10,124.8	14,472.2	10,378.6	38.3	38.5	-121.16	-4,090.1	888.3	490.2	413.8	76.45	6.413			
14,300.0	10,124.3	14,572.2	10,378.1	39.2	39.3	-121.15	-4,190.0	893.0	490.3	412.2	78.04	6.283			
14,400.0	10,123.8	14,672.2	10,377.6	40.0	40.2	-121.14	-4,289.9	897.7	490.3	410.7	79.63	6.157			
14,500.0	10,123.3	14,772.2	10,377.1	40.8	41.0	-121.14	-4,389.8	902.4	490.3	409.1	81.23	6.036			
14,600.0	10,122.8	14,872.2	10,376.5	41.7	41.8	-121.13	-4,489.7	907.1	490.3	407.5	82.83	5.920			
14,700.0	10,122.3	14,972.2	10,376.0	42.5	42.7	-121.13	-4,589.6	911.8	490.4	405.9	84.43	5.808			
14,800.0	10,121.8	15,072.2	10,375.5	43.4	43.5	-121.12	-4,689.5	916.5	490.4	404.3	86.04	5.700			
14,900.0	10,121.4	15,172.2	10,375.0	44.2	44.4	-121.11	-4,789.4	921.2	490.4	402.8	87.65	5.595			
15,000.0	10,120.9	15,272.2	10,374.4	45.1	45.2	-121.11	-4,889.2	926.0	490.4	401.2	89.26	5.494			
15,100.0	10,120.4	15,372.2	10,373.9	45.9	46.0	-121.10	-4,989.1	930.7	490.5	399.6	90.88	5.397			
15,196.4	10,119.9	15,468.5	10,373.4	46.7	46.9	-121.09	-5,085.4	935.2	490.5	398.0	92.44	5.306			
15,200.0	10,119.9	15,472.2	10,373.4	46.8	46.9	-121.09	-5,089.0	935.4	490.5	398.0	92.50	5.303			
15,300.0	10,119.4	15,566.5	10,372.8	47.6	47.8	-121.05	-5,203.3	939.1	490.9	396.6	94.24	5.209			
15,355.0	10,119.1	15,651.0	10,372.4	48.1	48.4	-121.04	-5,267.8	939.2	490.9	395.8	95.16	5.159			
15,400.0	10,118.9	15,695.7	10,372.2	48.4	48.8	-121.04	-5,312.5	938.8	490.9	395.0	95.89	5.120			
15,500.0	10,118.4	15,795.7	10,371.7	49.3	49.6	-121.04	-5,412.5	937.9	490.9	393.4	97.50	5.035			
15,600.0	10,117.9	15,895.7	10,371.2	50.1	50.4	-121.03	-5,512.5	937.1	490.9	391.7	99.11	4.952			
15,700.0	10,117.4	15,995.7	10,370.6	51.0	51.3	-121.03	-5,612.5	936.2	490.8	390.1	100.73	4.873			
15,800.0	10,116.9	16,095.7	10,370.1	51.8	52.1	-121.03	-5,712.5	935.3	490.8	388.5	102.35	4.795			
15,900.0	10,116.4	16,195.7	10,369.6	52.7	53.0	-121.03	-5,812.4	934.4	490.8	386.8	103.97	4.720			
16,000.0	10,115.9	16,295.7	10,369.1	53.5	53.8	-121.02	-5,912.4	933.5	490.8	385.2	105.59	4.648			
16,100.0	10,115.4	16,395.7	10,368.5	54.3	54.6	-121.02	-6,012.4	932.6	490.7	383.5	107.22	4.577			
16,200.0	10,114.9	16,495.7	10,368.0	55.2	55.5	-121.02	-6,112.4	931.8	490.7	381.9	108.84	4.508			
16,300.0	10,114.5	16,595.7	10,367.5	56.0	56.3	-121.02	-6,212.4	930.9	490.7	380.2	110.47	4.442			
16,400.0	10,114.0	16,695.7	10,367.0	56.9	57.2	-121.01	-6,312.4	930.0	490.7	378.6	112.10	4.377			
16,500.0	10,113.5	16,795.7	10,366.4	57.7	58.0	-121.01	-6,412.4	929.1	490.6	376.9	113.73	4.314			
16,600.0	10,113.0	16,895.7	10,365.9	58.6	58.8	-121.01	-6,512.4	928.2	490.6	375.2	115.36	4.253			
16,700.0	10,112.5	16,995.7	10,365.4	59.4	59.7	-121.01	-6,612.4	927.3	490.6	373.6	116.99	4.193			
16,800.0	10,112.0	17,095.7	10,364.9	60.3	60.5	-121.00	-6,712.4	926.5	490.5	371.9	118.63	4.135			
16,900.0	10,111.5	17,195.7	10,364.3	61.1	61.4	-121.00	-6,812.4	925.6	490.5	370.3	120.26	4.079			
17,000.0	10,111.0	17,295.7	10,363.8	62.0	62.2	-121.00	-6,912.4	924.7	490.5	368.6	121.90	4.024			
17,100.0	10,110.5	17,395.7	10,363.3	62.8	63.1	-121.00	-7,012.4	923.8	490.5	366.9	123.54	3.970			
17,200.0	10,110.0	17,495.7	10,362.8	63.7	63.9	-120.99	-7,112.4	922.9	490.4	365.3	125.18	3.918			
17,300.0	10,109.5	17,595.7	10,362.2	64.5	64.8	-120.99	-7,212.4	922.0	490.4	363.6	126.82	3.867			
17,400.0	10,109.0	17,695.7	10,361.7	65.4	65.6	-120.99	-7,312.4	921.2	490.4	361.9	128.46	3.818			
17,500.0	10,108.5	17,795.7	10,361.2	66.2	66.4	-120.99	-7,412.4	920.3	490.4	360.3	130.10	3.769			
17,600.0	10,108.0	17,895.7	10,360.7	67.1	67.3	-120.99	-7,512.4	919.4	490.3	358.6	131.74	3.722			
17,700.0	10,107.5	17,995.7	10,360.1	67.9	68.1	-120.98	-7,612.4	918.5	490.3	356.9	133.39	3.676			
17,800.0	10,107.0	18,095.7	10,359.6	68.8	69.0	-120.98	-7,712.3	917.6	490.3	355.3	135.03	3.631			
17,900.0	10,106.6	18,195.7	10,359.1	69.6	69.8	-120.98	-7,812.3	916.7	490.3	353.6	136.67	3.587			
18,000.0	10,106.1	18,295.7	10,358.6	70.5	70.7	-120.98	-7,912.3	915.9	490.2	351.9	138.32	3.544			
18,100.0	10,105.6	18,395.7	10,358.0	71.3	71.5	-120.97	-8,012.3	915.0	490.2	350.2	139.97	3.502			
18,200.0	10,105.1	18,495.7	10,357.5	72.2	72.4	-120.97	-8,112.3	914.1	490.2	348.6	141.61	3.461			
18,300.0	10,104.6	18,595.7	10,357.0	73.0	73.2	-120.97	-8,212.3	913.2	490.2	346.9	143.26	3.421			
18,400.0	10,104.1	18,695.7	10,356.5	73.9	74.1	-120.97	-8,312.3	912.3	490.1	345.2	144.91	3.382			
18,500.0	10,103.6	18,795.7	10,355.9	74.7	74.9	-120.96	-8,412.3	911.5	490.1	343.5	146.56	3.344			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9810-MWD+IFR1+FDIR					Rule Assigned:				Offset Well Error:		3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,600.0	10,103.1	18,895.7	10,355.4	75.6	75.8	-120.96	-8,512.3	910.6	490.1	341.9	148.21	3.307		
18,700.0	10,102.6	18,995.7	10,354.9	76.4	76.6	-120.96	-8,612.3	909.7	490.1	340.2	149.86	3.270		
18,800.0	10,102.1	19,095.7	10,354.4	77.3	77.5	-120.96	-8,712.3	908.8	490.0	338.5	151.51	3.234		
18,900.0	10,101.6	19,195.7	10,353.8	78.1	78.3	-120.95	-8,812.3	907.9	490.0	336.8	153.16	3.199		
19,000.0	10,101.1	19,295.7	10,353.3	79.0	79.2	-120.95	-8,912.3	907.0	490.0	335.2	154.82	3.165		
19,100.0	10,100.6	19,395.7	10,352.8	79.8	80.0	-120.95	-9,012.3	906.2	490.0	333.5	156.47	3.131		
19,200.0	10,100.1	19,495.7	10,352.3	80.7	80.9	-120.95	-9,112.3	905.3	489.9	331.8	158.12	3.098		
19,300.0	10,099.6	19,595.7	10,351.7	81.5	81.7	-120.94	-9,212.3	904.4	489.9	330.1	159.78	3.066		
19,400.0	10,099.2	19,695.7	10,351.2	82.4	82.6	-120.94	-9,312.3	903.5	489.9	328.4	161.43	3.035		
19,500.0	10,098.7	19,795.7	10,350.7	83.2	83.4	-120.94	-9,412.3	902.6	489.9	326.8	163.09	3.004		
19,600.0	10,098.2	19,895.7	10,350.2	84.1	84.3	-120.94	-9,512.3	901.7	489.8	325.1	164.74	2.973		
19,700.0	10,097.7	19,995.7	10,349.6	84.9	85.1	-120.93	-9,612.2	900.9	489.8	323.4	166.40	2.944		
19,800.0	10,097.2	20,095.7	10,349.1	85.8	86.0	-120.93	-9,712.2	900.0	489.8	321.7	168.06	2.914		
19,900.0	10,096.7	20,195.7	10,348.6	86.6	86.8	-120.93	-9,812.2	899.1	489.7	320.0	169.71	2.886		
20,000.0	10,096.2	20,295.7	10,348.1	87.5	87.7	-120.93	-9,912.2	898.2	489.7	318.4	171.37	2.858		
20,100.0	10,095.7	20,395.7	10,347.5	88.3	88.5	-120.92	-10,012.2	897.3	489.7	316.7	173.03	2.830		
20,200.0	10,095.2	20,495.7	10,347.0	89.2	89.4	-120.92	-10,112.2	896.4	489.7	315.0	174.68	2.803		
20,300.0	10,094.7	20,595.7	10,346.5	90.0	90.2	-120.92	-10,212.2	895.6	489.6	313.3	176.34	2.777		
20,400.0	10,094.2	20,695.7	10,346.0	90.9	91.1	-120.92	-10,312.2	894.7	489.6	311.6	178.00	2.751		
20,500.0	10,093.7	20,795.7	10,345.4	91.8	91.9	-120.91	-10,412.2	893.8	489.6	309.9	179.66	2.725		
20,565.5	10,093.4	20,861.2	10,345.1	92.3	92.5	-120.91	-10,477.7	893.2	489.6	308.8	180.75	2.709		
20,592.5	10,093.3	20,885.0	10,345.0	92.5	92.7	-120.92	-10,501.4	893.1	489.5	308.4	181.18	2.702		
20,600.0	10,093.2	20,891.7	10,344.9	92.6	92.8	-120.92	-10,508.2	893.1	489.5	308.2	181.30	2.700		
20,700.0	10,092.7	20,991.7	10,344.4	93.5	93.6	-120.91	-10,608.2	893.2	489.5	306.6	182.96	2.676		
20,800.0	10,092.2	21,091.7	10,343.9	94.3	94.5	-120.91	-10,708.2	893.2	489.5	304.9	184.62	2.651		
20,900.0	10,091.8	21,191.7	10,343.4	95.2	95.3	-120.91	-10,808.2	893.3	489.5	303.2	186.28	2.628		
21,000.0	10,091.3	21,291.7	10,342.8	96.0	96.2	-120.90	-10,908.2	893.4	489.5	301.5	187.95	2.604		
21,100.0	10,090.8	21,391.7	10,342.3	96.9	97.0	-120.90	-11,008.2	893.5	489.5	299.9	189.61	2.581		
21,200.0	10,090.3	21,491.7	10,341.8	97.7	97.9	-120.90	-11,108.2	893.5	489.4	298.2	191.27	2.559		
21,300.0	10,089.8	21,591.7	10,341.3	98.6	98.7	-120.89	-11,208.2	893.6	489.4	296.5	192.94	2.537		
21,400.0	10,089.3	21,691.7	10,340.8	99.4	99.6	-120.89	-11,308.2	893.7	489.4	294.8	194.60	2.515		
21,500.0	10,088.8	21,791.7	10,340.2	100.3	100.4	-120.89	-11,408.2	893.7	489.4	293.1	196.26	2.494		
21,600.0	10,088.3	21,891.7	10,339.7	101.2	101.3	-120.88	-11,508.2	893.8	489.4	291.5	197.93	2.472		
21,700.0	10,087.8	21,991.7	10,339.2	102.0	102.2	-120.88	-11,608.2	893.9	489.4	289.8	199.59	2.452		
21,800.0	10,087.3	22,091.7	10,338.7	102.9	103.0	-120.88	-11,708.2	894.0	489.3	288.1	201.26	2.431		
21,900.0	10,086.8	22,191.7	10,338.1	103.7	103.9	-120.87	-11,808.2	894.0	489.3	286.4	202.92	2.411		
22,000.0	10,086.3	22,291.7	10,337.6	104.6	104.7	-120.87	-11,908.2	894.1	489.3	284.7	204.59	2.392		
22,100.0	10,085.8	22,391.7	10,337.1	105.4	105.6	-120.87	-12,008.2	894.2	489.3	283.0	206.25	2.372		
22,200.0	10,085.4	22,491.7	10,336.6	106.3	106.4	-120.87	-12,108.2	894.2	489.3	281.4	207.92	2.353		
22,300.0	10,084.9	22,591.7	10,336.0	107.1	107.3	-120.86	-12,208.2	894.3	489.3	279.7	209.59	2.334		
22,400.0	10,084.4	22,691.7	10,335.5	108.0	108.1	-120.86	-12,308.2	894.4	489.2	278.0	211.25	2.316		
22,500.0	10,083.9	22,791.7	10,335.0	108.9	109.0	-120.86	-12,408.2	894.5	489.2	276.3	212.92	2.298		
22,600.0	10,083.4	22,891.7	10,334.5	109.7	109.8	-120.85	-12,508.2	894.5	489.2	274.6	214.59	2.280		
22,700.0	10,082.9	22,991.7	10,333.9	110.6	110.7	-120.85	-12,608.2	894.6	489.2	272.9	216.25	2.262		
22,800.0	10,082.4	23,091.7	10,333.4	111.4	111.6	-120.85	-12,708.2	894.7	489.2	271.3	217.92	2.245		
22,900.0	10,081.9	23,191.7	10,332.9	112.3	112.4	-120.84	-12,808.2	894.7	489.2	269.6	219.59	2.228		
23,000.0	10,081.4	23,291.7	10,332.4	113.1	113.3	-120.84	-12,908.2	894.8	489.2	267.9	221.26	2.211		
23,100.0	10,080.9	23,391.7	10,331.8	114.0	114.1	-120.84	-13,008.2	894.9	489.1	266.2	222.92	2.194		
23,200.0	10,080.4	23,491.7	10,331.3	114.8	115.0	-120.83	-13,108.2	895.0	489.1	264.5	224.59	2.178		
23,300.0	10,079.9	23,591.7	10,330.8	115.7	115.8	-120.83	-13,208.1	895.0	489.1	262.8	226.26	2.162		
23,400.0	10,079.4	23,691.7	10,330.3	116.6	116.7	-120.83	-13,308.1	895.1	489.1	261.2	227.93	2.146		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
23,500.0	10,079.0	23,791.7	10,329.7	117.4	117.5	-120.82	-13,408.1	895.2	489.1	259.5	229.60	2.130	
23,600.0	10,078.5	23,891.7	10,329.2	118.3	118.4	-120.82	-13,508.1	895.3	489.1	257.8	231.26	2.115	
23,700.0	10,078.0	23,991.7	10,328.7	119.1	119.3	-120.82	-13,608.1	895.3	489.0	256.1	232.93	2.099	
23,800.0	10,077.5	24,091.7	10,328.2	120.0	120.1	-120.81	-13,708.1	895.4	489.0	254.4	234.60	2.084	
23,900.0	10,077.0	24,191.7	10,327.7	120.8	121.0	-120.81	-13,808.1	895.5	489.0	252.7	236.27	2.070	
24,000.0	10,076.5	24,291.7	10,327.1	121.7	121.8	-120.81	-13,908.1	895.5	489.0	251.0	237.94	2.055	
24,100.0	10,076.0	24,391.7	10,326.6	122.6	122.7	-120.80	-14,008.1	895.6	489.0	249.4	239.61	2.041	
24,200.0	10,075.5	24,491.7	10,326.1	123.4	123.5	-120.80	-14,108.1	895.7	489.0	247.7	241.28	2.027	
24,300.0	10,075.0	24,591.7	10,325.6	124.3	124.4	-120.80	-14,208.1	895.8	488.9	246.0	242.95	2.013	
24,400.0	10,074.5	24,691.7	10,325.0	125.1	125.2	-120.80	-14,308.1	895.8	488.9	244.3	244.62	1.999 Advise and Monitor	
24,500.0	10,074.0	24,791.7	10,324.5	126.0	126.1	-120.79	-14,408.1	895.9	488.9	242.6	246.29	1.985 Advise and Monitor	
24,600.0	10,073.5	24,891.7	10,324.0	126.8	127.0	-120.79	-14,508.1	896.0	488.9	240.9	247.96	1.972 Advise and Monitor	
24,700.0	10,073.0	24,991.7	10,323.5	127.7	127.8	-120.79	-14,608.1	896.0	488.9	239.2	249.63	1.958 Advise and Monitor	
24,800.0	10,072.6	25,091.7	10,322.9	128.5	128.7	-120.78	-14,708.1	896.1	488.9	237.6	251.30	1.945 Advise and Monitor	
24,900.0	10,072.1	25,191.7	10,322.4	129.4	129.5	-120.78	-14,808.1	896.2	488.8	235.9	252.97	1.932 Advise and Monitor	
25,000.0	10,071.6	25,291.7	10,321.9	130.3	130.4	-120.78	-14,908.1	896.3	488.8	234.2	254.64	1.920 Advise and Monitor	
25,100.0	10,071.1	25,391.7	10,321.4	131.1	131.2	-120.77	-15,008.1	896.3	488.8	232.5	256.31	1.907 Advise and Monitor	
25,200.0	10,070.6	25,491.7	10,320.8	132.0	132.1	-120.77	-15,108.1	896.4	488.8	230.8	257.98	1.895 Advise and Monitor	
25,300.0	10,070.1	25,591.7	10,320.3	132.8	132.9	-120.77	-15,208.1	896.5	488.8	229.1	259.65	1.882 Advise and Monitor	
25,400.0	10,069.6	25,691.7	10,319.8	133.7	133.8	-120.76	-15,308.1	896.6	488.8	227.4	261.33	1.870 Advise and Monitor	
25,500.0	10,069.1	25,791.7	10,319.3	134.5	134.7	-120.76	-15,408.1	896.6	488.7	225.7	263.00	1.858 Advise and Monitor	
25,600.0	10,068.6	25,891.7	10,318.7	135.4	135.5	-120.76	-15,508.1	896.7	488.7	224.1	264.67	1.847 Advise and Monitor	
25,700.0	10,068.1	25,991.7	10,318.2	136.3	136.4	-120.75	-15,608.1	896.8	488.7	222.4	266.34	1.835 Advise and Monitor	
25,724.6	10,068.0	26,016.3	10,318.1	136.5	136.6	-120.75	-15,632.7	896.8	488.7	222.0	266.75	1.832 Advise and Monitor, SF	

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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:		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)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	5.000		
100.0	100.0	99.6	99.6	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	4.997		
200.0	200.0	199.6	199.6	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.01	4.992		
300.0	300.0	299.6	299.6	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.02	4.985		
400.0	400.0	399.6	399.6	3.1	3.1	-90.19	-0.1	-30.0	30.0	24.0	6.03	4.974		
500.0	500.0	499.6	499.6	3.1	3.1	-90.19	-0.1	-30.0	30.0	24.0	6.05	4.961		
600.0	600.0	599.6	599.6	3.1	3.1	-90.19	-0.1	-30.0	30.0	23.9	6.07	4.946		
700.0	700.0	699.6	699.6	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.09	4.928		
800.0	800.0	799.6	799.6	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.11	4.908		
900.0	900.0	899.6	899.6	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.14	4.885		
1,000.0	1,000.0	999.6	999.6	3.3	3.3	-90.19	-0.1	-30.0	30.0	23.8	6.17	4.860		
1,100.0	1,100.0	1,099.6	1,099.6	3.4	3.4	-90.19	-0.1	-30.0	30.0	23.8	6.21	4.834		
1,200.0	1,200.0	1,199.6	1,199.6	3.4	3.4	-90.19	-0.1	-30.0	30.0	23.8	6.24	4.805		
1,300.0	1,300.0	1,299.6	1,299.6	3.5	3.5	-90.19	-0.1	-30.0	30.0	23.7	6.28	4.774		
1,400.0	1,400.0	1,399.6	1,399.6	3.5	3.5	-90.19	-0.1	-30.0	30.0	23.7	6.33	4.742		
1,500.0	1,500.0	1,499.6	1,499.6	3.6	3.6	-90.19	-0.1	-30.0	30.0	23.6	6.37	4.708		
1,600.0	1,600.0	1,599.6	1,599.6	3.7	3.7	-90.19	-0.1	-30.0	30.0	23.6	6.42	4.672		
1,700.0	1,700.0	1,699.6	1,699.6	3.8	3.8	-90.19	-0.1	-30.0	30.0	23.5	6.47	4.636		
1,800.0	1,800.0	1,799.6	1,799.6	3.9	3.9	-90.19	-0.1	-30.0	30.0	23.5	6.53	4.597		
1,900.0	1,900.0	1,899.6	1,899.6	3.9	3.9	-90.19	-0.1	-30.0	30.0	23.4	6.58	4.558		
2,000.0	2,000.0	1,999.6	1,999.6	4.0	4.0	-90.19	-0.1	-30.0	30.0	23.4	6.64	4.518		
2,100.0	2,100.0	2,099.6	2,099.6	4.1	4.1	-90.19	-0.1	-30.0	30.0	23.3	6.70	4.477		
2,200.0	2,200.0	2,199.6	2,199.6	4.2	4.2	-90.19	-0.1	-30.0	30.0	23.2	6.76	4.435		
2,300.0	2,300.0	2,299.6	2,299.6	4.3	4.3	-90.19	-0.1	-30.0	30.0	23.2	6.83	4.392		
2,400.0	2,400.0	2,399.6	2,399.6	4.4	4.4	-90.19	-0.1	-30.0	30.0	23.1	6.90	4.349 CC, ES		
2,500.0	2,500.0	2,499.6	2,499.6	4.5	4.5	-146.15	1.3	-31.0	32.4	25.5	6.97	4.656		
2,600.0	2,600.0	2,599.0	2,598.9	4.5	4.6	-144.19	5.5	-33.9	39.8	32.8	7.04	5.649		
2,700.0	2,699.8	2,697.9	2,697.8	4.6	4.6	-143.12	8.7	-36.1	45.3	38.2	7.09	6.396		
2,750.0	2,749.7	2,747.2	2,746.9	4.6	4.7	-142.22	12.2	-38.5	51.5	44.4	7.13	7.223		
2,800.0	2,799.5	2,796.8	2,796.3	4.7	4.7	-140.94	19.3	-43.4	63.9	56.7	7.22	8.845		
2,900.0	2,899.1	2,896.0	2,895.1	4.8	4.8	-140.07	26.4	-48.4	76.3	69.0	7.32	10.423		
3,000.0	2,998.7	2,995.2	2,993.9	4.8	4.9	-139.45	33.6	-53.3	88.7	81.3	7.42	11.955		
3,100.0	3,098.4	3,094.4	3,092.8	4.9	5.0	-138.98	40.7	-58.2	101.2	93.6	7.53	13.440		
3,200.0	3,198.0	3,193.6	3,191.6	5.0	5.1	-138.61	47.8	-63.1	113.6	106.0	7.64	14.876		
3,300.0	3,297.6	3,292.9	3,290.5	5.1	5.2	-138.31	54.9	-68.0	126.1	118.3	7.75	16.264		
3,400.0	3,397.2	3,392.1	3,389.3	5.2	5.3	-138.07	62.0	-72.9	138.5	130.6	7.87	17.603		
3,500.0	3,496.8	3,491.3	3,488.2	5.2	5.4	-137.87	69.1	-77.9	151.0	143.0	7.99	18.893		
3,600.0	3,596.4	3,590.5	3,587.0	5.3	5.5	-137.70	76.2	-82.8	163.4	155.3	8.12	20.135		
3,700.0	3,696.1	3,689.7	3,685.9	5.4	5.6	-137.55	83.3	-87.7	175.9	167.6	8.24	21.330		
3,800.0	3,795.7	3,789.0	3,784.7	5.5	5.7	-137.42	90.5	-92.6	188.3	179.9	8.38	22.477		
3,900.0	3,895.3	3,888.2	3,883.5	5.6	5.8	-137.31	97.6	-97.5	200.8	192.2	8.51	23.579		
4,000.0	3,994.9	4,086.6	4,081.2	5.7	5.9	-137.21	104.7	-102.5	213.2	204.6	8.65	24.636		
4,100.0	4,094.5	4,185.9	4,180.1	5.8	6.0	-137.13	111.8	-107.4	225.7	216.9	8.80	25.649		
4,200.0	4,194.2	4,285.1	4,278.9	5.9	6.1	-137.05	118.9	-112.3	238.1	229.2	8.94	26.620		
4,300.0	4,293.8	4,384.3	4,377.8	6.0	6.2	-136.98	126.0	-117.2	250.6	241.5	9.10	27.550		
4,400.0	4,393.4	4,483.5	4,476.6	6.1	6.3	-136.91	133.1	-122.1	263.0	253.8	9.25	28.440		
4,500.0	4,493.0	4,582.7	4,575.4	6.2	6.4	-136.85	140.3	-127.0	275.5	266.1	9.40	29.292		
4,600.0	4,592.6	4,682.0	4,674.3	6.3	6.5	-136.80	147.4	-132.0	287.9	278.4	9.56	30.107		
4,700.0	4,692.3	4,781.2	4,773.1	6.4	6.7	-136.75	154.5	-136.9	300.4	290.7	9.73	30.887		
4,800.0	4,791.9	4,883.0	4,874.6	6.5	6.8	-136.76	161.5	-141.7	312.6	302.7	9.89	31.613		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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			
5,000.0	4,991.1	4,986.4	4,977.7	6.6	6.9	-136.98	167.1	-145.6	323.6	313.5	10.05	32.203			
5,100.0	5,090.7	5,090.0	5,081.2	6.7	7.0	-137.43	171.2	-148.5	333.4	323.2	10.21	32.659			
5,200.0	5,190.4	5,193.8	5,185.0	6.8	7.1	-138.08	173.8	-150.3	341.9	331.6	10.37	32.985			
5,300.0	5,290.0	5,297.6	5,288.8	6.9	7.2	-138.92	174.9	-151.0	349.3	338.8	10.53	33.186			
5,400.0	5,389.6	5,398.0	5,389.2	7.0	7.4	-139.84	174.9	-151.0	355.9	345.3	10.66	33.384			
5,500.0	5,489.2	5,497.6	5,488.8	7.2	7.5	-140.73	174.9	-151.0	362.7	351.9	10.80	33.582			
5,600.0	5,588.8	5,597.3	5,588.4	7.3	7.6	-141.58	174.9	-151.0	369.5	358.5	10.94	33.770			
5,700.0	5,688.5	5,696.9	5,688.1	7.4	7.7	-142.41	174.9	-151.0	376.3	365.2	11.08	33.950			
5,800.0	5,788.1	5,796.5	5,787.7	7.5	7.8	-143.20	174.9	-151.0	383.3	372.0	11.23	34.122			
5,900.0	5,887.7	5,896.1	5,887.3	7.6	7.9	-143.97	174.9	-151.0	390.3	378.9	11.38	34.287			
6,000.0	5,987.3	5,995.7	5,986.9	7.7	8.1	-144.70	174.9	-151.0	397.4	385.9	11.54	34.444			
6,063.1	6,050.2	6,058.6	6,049.8	7.8	8.1	-145.16	174.9	-151.0	401.9	390.3	11.64	34.539			
6,100.0	6,086.9	6,095.4	6,086.5	7.8	8.2	-145.42	174.9	-151.0	404.5	392.8	11.69	34.586			
6,200.0	6,186.7	6,195.1	6,186.3	7.9	8.3	-146.03	174.9	-151.0	410.4	398.6	11.85	34.629			
6,300.0	6,286.5	6,294.9	6,286.1	8.1	8.4	-146.47	174.9	-151.0	415.0	402.9	12.01	34.559			
6,400.0	6,386.5	6,394.9	6,386.1	8.2	8.5	-146.77	174.9	-151.0	418.1	405.9	12.16	34.378			
6,500.0	6,486.4	6,494.9	6,486.0	8.3	8.7	-146.93	174.9	-151.0	419.7	407.4	12.31	34.084			
6,563.1	6,549.6	6,558.0	6,549.2	8.3	8.7	-90.15	174.9	-151.0	420.0	407.6	12.39	33.885			
6,600.0	6,586.4	6,594.9	6,586.0	8.4	8.8	-90.15	174.9	-151.0	420.0	407.6	12.43	33.782			
6,700.0	6,686.4	6,694.9	6,686.0	8.5	8.9	-90.15	174.9	-151.0	420.0	407.5	12.54	33.504			
6,800.0	6,786.4	6,794.9	6,786.0	8.6	9.0	-90.15	174.9	-151.0	420.0	407.4	12.64	33.229			
6,900.0	6,886.4	6,894.9	6,886.0	8.7	9.1	-90.15	174.9	-151.0	420.0	407.3	12.74	32.957			
7,000.0	6,986.4	6,994.9	6,986.0	8.8	9.3	-90.15	174.9	-151.0	420.0	407.2	12.85	32.687			
7,100.0	7,086.4	7,094.9	7,086.0	8.9	9.4	-90.15	174.9	-151.0	420.0	407.0	12.96	32.420			
7,200.0	7,186.4	7,194.9	7,186.0	9.0	9.5	-90.15	174.9	-151.0	420.0	406.9	13.06	32.156			
7,300.0	7,286.4	7,294.9	7,286.0	9.2	9.6	-90.15	174.9	-151.0	420.0	406.8	13.17	31.894			
7,400.0	7,386.4	7,394.9	7,386.0	9.3	9.8	-90.15	174.9	-151.0	420.0	406.7	13.28	31.636			
7,500.0	7,486.4	7,494.9	7,486.0	9.4	9.9	-90.15	174.9	-151.0	420.0	406.6	13.38	31.380			
7,600.0	7,586.4	7,594.9	7,586.0	9.5	10.0	-90.15	174.9	-151.0	420.0	406.5	13.49	31.127			
7,700.0	7,686.4	7,694.9	7,686.0	9.6	10.1	-90.15	174.9	-151.0	420.0	406.4	13.60	30.877			
7,800.0	7,786.4	7,794.9	7,786.0	9.7	10.2	-90.15	174.9	-151.0	420.0	406.3	13.71	30.629			
7,900.0	7,886.4	7,894.9	7,886.0	9.8	10.4	-90.15	174.9	-151.0	420.0	406.2	13.82	30.385			
8,000.0	7,986.4	7,994.9	7,986.0	10.0	10.5	-90.15	174.9	-151.0	420.0	406.1	13.93	30.143			
8,100.0	8,086.4	8,094.9	8,086.0	10.1	10.6	-90.15	174.9	-151.0	420.0	406.0	14.05	29.904			
8,200.0	8,186.4	8,194.9	8,186.0	10.2	10.7	-90.15	174.9	-151.0	420.0	405.8	14.16	29.667			
8,300.0	8,286.4	8,294.9	8,286.0	10.3	10.9	-90.15	174.9	-151.0	420.0	405.7	14.27	29.434			
8,400.0	8,386.4	8,394.9	8,386.0	10.4	11.0	-90.15	174.9	-151.0	420.0	405.6	14.38	29.203			
8,500.0	8,486.4	8,494.9	8,486.0	10.5	11.1	-90.15	174.9	-151.0	420.0	405.5	14.50	28.974			
8,600.0	8,586.4	8,594.9	8,586.0	10.7	11.2	-90.15	174.9	-151.0	420.0	405.4	14.61	28.749			
8,700.0	8,686.4	8,694.9	8,686.0	10.8	11.4	-90.15	174.9	-151.0	420.0	405.3	14.72	28.526			
8,800.0	8,786.4	8,794.9	8,786.0	10.9	11.5	-90.15	174.9	-151.0	420.0	405.2	14.84	28.305			
8,900.0	8,886.4	8,894.9	8,886.0	11.0	11.6	-90.15	174.9	-151.0	420.0	405.0	14.95	28.087			
9,000.0	8,986.4	8,994.9	8,986.0	11.1	11.7	-90.15	174.9	-151.0	420.0	404.9	15.07	27.872			
9,100.0	9,086.4	9,094.9	9,086.0	11.2	11.9	-90.15	174.9	-151.0	420.0	404.8	15.18	27.659			
9,200.0	9,186.4	9,194.9	9,186.0	11.4	12.0	-90.15	174.9	-151.0	420.0	404.7	15.30	27.449			
9,300.0	9,286.4	9,294.9	9,286.0	11.5	12.1	-90.15	174.9	-151.0	420.0	404.6	15.42	27.241			
9,400.0	9,386.4	9,394.9	9,386.0	11.6	12.2	-90.15	174.9	-151.0	420.0	404.5	15.53	27.036			
9,500.0	9,486.4	9,494.9	9,486.0	11.7	12.4	-90.15	174.9	-151.0	420.0	404.3	15.65	26.833			
9,583.7	9,570.1	9,578.5	9,569.7	11.8	12.5	-90.15	174.9	-151.0	420.0	404.3	15.73	26.696			
9,600.0	9,586.4	9,594.9	9,586.0	11.8	12.5	92.55	174.9	-151.0	420.0	404.3	15.74	26.677			
9,650.0	9,636.3	9,644.7	9,635.9	11.8	12.6	93.03	174.9	-151.0	420.2	404.4	15.77	26.640			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.0	9,685.6	9,694.1	9,685.2	11.8	12.6	94.04		174.9	-151.0	420.7	404.9	15.80	26.630	
9,750.0	9,734.1	9,742.5	9,733.7	11.8	12.7	95.54		174.9	-151.0	421.7	405.9	15.83	26.642	
9,800.0	9,781.3	9,789.7	9,780.9	11.8	12.7	97.43		174.9	-151.0	423.7	407.8	15.89	26.669	
9,850.0	9,827.0	9,838.8	9,829.9	11.9	12.8	99.73		174.4	-151.0	426.9	411.0	15.98	26.724	
9,900.0	9,870.6	9,892.9	9,883.8	11.9	12.8	102.20		169.5	-150.7	431.2	415.0	16.13	26.732	
9,950.0	9,912.0	9,949.5	9,939.5	12.0	12.8	104.63		159.0	-150.3	436.2	419.8	16.39	26.615	
10,000.0	9,950.8	10,009.1	9,996.5	12.0	12.8	106.98		142.1	-149.5	441.8	425.0	16.79	26.317	
10,050.0	9,986.6	10,071.7	10,054.3	12.1	12.8	109.23		118.0	-148.3	447.9	430.5	17.36	25.798	
10,100.0	10,019.3	10,137.7	10,112.0	12.1	12.9	111.36		86.0	-146.9	454.2	436.1	18.13	25.053	
10,150.0	10,048.6	10,207.2	10,168.3	12.2	13.0	113.33		45.4	-145.0	460.4	441.3	19.09	24.118	
10,200.0	10,074.3	10,280.4	10,221.8	12.2	13.0	115.10		-4.4	-142.6	466.4	446.1	20.22	23.065	
10,250.0	10,096.1	10,357.0	10,270.5	12.3	13.1	116.63		-63.3	-139.9	471.6	450.2	21.45	21.984	
10,300.0	10,113.9	10,436.7	10,312.4	12.4	13.2	117.86		-131.0	-136.7	476.0	453.3	22.72	20.956	
10,350.0	10,127.5	10,519.1	10,345.4	12.4	13.3	118.75		-206.4	-133.2	479.3	455.4	23.91	20.045	
10,400.0	10,137.0	10,603.3	10,367.6	12.5	13.3	119.26		-287.4	-129.4	481.2	456.2	24.94	19.292	
10,450.0	10,142.1	10,688.3	10,377.7	12.5	13.4	119.38		-371.6	-125.5	481.6	455.8	25.74	18.711	
10,486.2	10,143.1	10,736.2	10,378.2	12.6	13.4	119.30		-419.5	-123.3	481.2	455.2	26.05	18.469	
10,486.5	10,143.1	10,736.5	10,378.2	12.6	13.4	119.30		-419.8	-123.3	481.2	455.2	26.06	18.468	
10,500.0	10,143.0	10,750.0	10,378.1	12.6	13.4	119.30		-433.3	-122.6	481.2	455.1	26.14	18.406	
10,600.0	10,142.5	10,850.0	10,377.6	12.7	13.4	119.31		-533.2	-118.0	481.2	454.4	26.85	17.924	
10,700.0	10,142.0	10,950.0	10,377.2	12.9	13.5	119.31		-633.1	-113.3	481.3	453.6	27.64	17.413	
10,800.0	10,141.5	11,050.0	10,376.7	13.1	13.5	119.31		-733.0	-108.7	481.3	452.8	28.51	16.884	
10,900.0	10,141.0	11,150.0	10,376.2	13.4	13.6	119.31		-832.9	-104.0	481.3	451.9	29.44	16.346	
11,000.0	10,140.5	11,250.0	10,375.8	13.8	13.7	119.32		-932.7	-99.3	481.3	450.9	30.45	15.807	
11,100.0	10,140.0	11,350.0	10,375.3	14.2	13.8	119.32		-1,032.6	-94.7	481.3	449.8	31.51	15.274	
11,200.0	10,139.5	11,450.0	10,374.9	14.8	14.2	119.32		-1,132.5	-90.0	481.4	448.7	32.63	14.752	
11,300.0	10,139.1	11,550.0	10,374.4	15.4	14.8	119.32		-1,232.4	-85.4	481.4	447.6	33.79	14.244	
11,400.0	10,138.6	11,650.0	10,373.9	16.0	15.5	119.33		-1,332.3	-80.7	481.4	446.4	35.00	13.754	
11,500.0	10,138.1	11,750.0	10,373.5	16.7	16.3	119.33		-1,432.2	-76.1	481.4	445.2	36.25	13.281	
11,600.0	10,137.6	11,850.0	10,373.0	17.4	17.0	119.33		-1,532.1	-71.4	481.4	443.9	37.53	12.828	
11,700.0	10,137.1	11,950.0	10,372.6	18.1	17.8	119.33		-1,632.0	-66.7	481.5	442.6	38.84	12.395	
11,800.0	10,136.6	12,050.0	10,372.1	18.8	18.5	119.34		-1,731.9	-62.1	481.5	441.3	40.18	11.982	
11,900.0	10,136.1	12,150.0	10,371.6	19.6	19.3	119.34		-1,831.8	-57.4	481.5	440.0	41.55	11.588	
12,000.0	10,135.6	12,250.0	10,371.2	20.3	20.1	119.34		-1,931.6	-52.8	481.5	438.6	42.94	11.214	
12,100.0	10,135.1	12,350.0	10,370.7	21.1	20.9	119.34		-2,031.5	-48.1	481.6	437.2	44.35	10.857	
12,200.0	10,134.6	12,450.0	10,370.2	21.9	21.7	119.35		-2,131.4	-43.5	481.6	435.8	45.78	10.519	
12,300.0	10,134.1	12,550.0	10,369.8	22.7	22.5	119.35		-2,231.3	-38.8	481.6	434.4	47.23	10.197	
12,400.0	10,133.6	12,650.0	10,369.3	23.5	23.3	119.35		-2,331.2	-34.1	481.6	432.9	48.69	9.891	
12,500.0	10,133.2	12,750.0	10,368.9	24.3	24.1	119.35		-2,431.1	-29.5	481.6	431.5	50.17	9.600	
12,600.0	10,132.7	12,850.0	10,368.4	25.1	24.9	119.36		-2,531.0	-24.8	481.7	430.0	51.66	9.324	
12,700.0	10,132.2	12,950.0	10,367.9	25.9	25.8	119.36		-2,630.9	-20.2	481.7	428.5	53.16	9.060	
12,800.0	10,131.7	13,050.0	10,367.5	26.7	26.6	119.36		-2,730.8	-15.5	481.7	427.0	54.68	8.810	
12,900.0	10,131.2	13,150.0	10,367.0	27.5	27.4	119.36		-2,830.7	-10.8	481.7	425.5	56.20	8.572	
13,000.0	10,130.7	13,250.0	10,366.5	28.3	28.2	119.37		-2,930.6	-6.2	481.7	424.0	57.73	8.344	
13,100.0	10,130.2	13,350.0	10,366.1	29.2	29.1	119.37		-3,030.4	-1.5	481.8	422.5	59.28	8.128	
13,200.0	10,129.7	13,450.0	10,365.6	30.0	29.9	119.37		-3,130.3	3.1	481.8	421.0	60.83	7.921	
13,300.0	10,129.2	13,550.0	10,365.2	30.8	30.7	119.38		-3,230.2	7.8	481.8	419.4	62.38	7.723	
13,400.0	10,128.7	13,650.0	10,364.7	31.6	31.6	119.38		-3,330.1	12.4	481.8	417.9	63.95	7.535	
13,500.0	10,128.2	13,750.0	10,364.2	32.5	32.4	119.38		-3,430.0	17.1	481.9	416.3	65.52	7.355	
13,600.0	10,127.7	13,850.0	10,363.8	33.3	33.3	119.38		-3,529.9	21.8	481.9	414.8	67.09	7.182	
13,700.0	10,127.3	13,950.0	10,363.3	34.1	34.1	119.39		-3,629.8	26.4	481.9	413.2	68.68	7.017	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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)	Factor		
13,800.0	10,126.8	14,050.0	10,362.8	35.0	34.9	119.39	-3,729.7	31.1	481.9	411.7	70.26	6.859		
13,900.0	10,126.3	14,150.0	10,362.4	35.8	35.8	119.39	-3,829.6	35.7	481.9	410.1	71.85	6.707		
14,000.0	10,125.8	14,250.0	10,361.9	36.6	36.6	119.39	-3,929.5	40.4	482.0	408.5	73.45	6.562		
14,100.0	10,125.3	14,350.0	10,361.5	37.5	37.5	119.40	-4,029.3	45.0	482.0	406.9	75.05	6.422		
14,200.0	10,124.8	14,450.0	10,361.0	38.3	38.3	119.40	-4,129.2	49.7	482.0	405.3	76.65	6.288		
14,300.0	10,124.3	14,550.0	10,360.5	39.2	39.2	119.40	-4,229.1	54.4	482.0	403.8	78.26	6.159		
14,400.0	10,123.8	14,650.0	10,360.1	40.0	40.0	119.40	-4,329.0	59.0	482.0	402.2	79.87	6.035		
14,500.0	10,123.3	14,750.0	10,359.6	40.8	40.8	119.41	-4,428.9	63.7	482.1	400.6	81.49	5.916		
14,600.0	10,122.8	14,850.0	10,359.2	41.7	41.7	119.41	-4,528.8	68.3	482.1	399.0	83.11	5.801		
14,700.0	10,122.3	14,950.0	10,358.7	42.5	42.5	119.41	-4,628.7	73.0	482.1	397.4	84.73	5.690		
14,800.0	10,121.8	15,050.0	10,358.2	43.4	43.4	119.41	-4,728.6	77.7	482.1	395.8	86.35	5.583		
14,900.0	10,121.4	15,150.0	10,357.8	44.2	44.2	119.42	-4,828.5	82.3	482.1	394.2	87.98	5.480		
15,000.0	10,120.9	15,250.0	10,357.3	45.1	45.1	119.42	-4,928.4	87.0	482.2	392.6	89.60	5.381		
15,100.0	10,120.4	15,350.0	10,356.8	45.9	45.9	119.42	-5,028.2	91.6	482.2	391.0	91.23	5.285		
15,100.1	10,120.4	15,350.1	10,356.8	45.9	45.9	119.42	-5,028.4	91.6	482.2	391.0	91.24	5.285		
15,196.4	10,119.9	15,443.5	10,356.4	46.7	46.7	119.42	-5,121.6	95.9	482.3	389.5	92.77	5.199		
15,200.0	10,119.9	15,446.7	10,356.4	46.8	46.8	119.42	-5,124.8	96.0	482.3	389.5	92.82	5.196		
15,300.0	10,119.4	15,533.9	10,356.0	47.6	47.5	119.40	-5,212.0	98.1	482.7	388.5	94.23	5.123		
15,355.0	10,119.1	15,582.0	10,355.8	48.1	47.9	119.41	-5,260.1	98.1	482.8	387.8	94.98	5.083		
15,355.2	10,119.1	15,582.0	10,355.8	48.1	47.9	119.41	-5,260.1	98.1	482.8	387.8	94.98	5.083		
15,400.0	10,118.9	15,626.8	10,355.6	48.4	48.3	119.41	-5,304.9	97.7	482.8	387.1	95.71	5.044		
15,500.0	10,118.4	15,726.8	10,355.1	49.3	49.1	119.41	-5,404.9	96.8	482.8	385.4	97.34	4.960		
15,600.0	10,117.9	15,826.8	10,354.6	50.1	50.0	119.42	-5,504.9	96.0	482.8	383.8	98.97	4.878		
15,700.0	10,117.4	15,926.8	10,354.2	51.0	50.8	119.42	-5,604.9	95.1	482.8	382.2	100.61	4.799		
15,800.0	10,116.9	16,026.8	10,353.7	51.8	51.7	119.43	-5,704.9	94.2	482.8	380.6	102.24	4.722		
15,900.0	10,116.4	16,126.8	10,353.3	52.7	52.5	119.43	-5,804.9	93.4	482.8	378.9	103.88	4.648		
16,000.0	10,115.9	16,226.8	10,352.8	53.5	53.4	119.43	-5,904.9	92.5	482.8	377.3	105.52	4.576		
16,100.0	10,115.4	16,326.8	10,352.3	54.3	54.2	119.44	-6,004.9	91.7	482.8	375.7	107.16	4.506		
16,200.0	10,114.9	16,426.8	10,351.9	55.2	55.1	119.44	-6,104.9	90.8	482.8	374.0	108.80	4.438		
16,300.0	10,114.5	16,526.8	10,351.4	56.0	55.9	119.45	-6,204.9	89.9	482.8	372.4	110.44	4.372		
16,400.0	10,114.0	16,626.8	10,351.0	56.9	56.7	119.45	-6,304.9	89.1	482.9	370.8	112.09	4.308		
16,500.0	10,113.5	16,726.8	10,350.5	57.7	57.6	119.45	-6,404.8	88.2	482.9	369.1	113.73	4.246		
16,600.0	10,113.0	16,826.8	10,350.0	58.6	58.4	119.46	-6,504.8	87.3	482.9	367.5	115.38	4.185		
16,700.0	10,112.5	16,926.8	10,349.6	59.4	59.3	119.46	-6,604.8	86.5	482.9	365.8	117.03	4.126		
16,800.0	10,112.0	17,026.8	10,349.1	60.3	60.1	119.47	-6,704.8	85.6	482.9	364.2	118.67	4.069		
16,900.0	10,111.5	17,126.8	10,348.7	61.1	61.0	119.47	-6,804.8	84.8	482.9	362.6	120.32	4.013		
17,000.0	10,111.0	17,226.8	10,348.2	62.0	61.8	119.47	-6,904.8	83.9	482.9	360.9	121.97	3.959		
17,100.0	10,110.5	17,326.8	10,347.7	62.8	62.7	119.48	-7,004.8	83.0	482.9	359.3	123.62	3.906		
17,200.0	10,110.0	17,426.8	10,347.3	63.7	63.5	119.48	-7,104.8	82.2	482.9	357.6	125.27	3.855		
17,300.0	10,109.5	17,526.8	10,346.8	64.5	64.4	119.49	-7,204.8	81.3	482.9	356.0	126.93	3.805		
17,400.0	10,109.0	17,626.8	10,346.4	65.4	65.2	119.49	-7,304.8	80.5	482.9	354.3	128.58	3.756		
17,500.0	10,108.5	17,726.8	10,345.9	66.2	66.1	119.49	-7,404.8	79.6	482.9	352.7	130.23	3.708		
17,600.0	10,108.0	17,826.8	10,345.4	67.1	66.9	119.50	-7,504.8	78.7	482.9	351.1	131.89	3.662		
17,700.0	10,107.5	17,926.8	10,345.0	67.9	67.8	119.50	-7,604.8	77.9	482.9	349.4	133.54	3.616		
17,800.0	10,107.0	18,026.8	10,344.5	68.8	68.6	119.51	-7,704.8	77.0	483.0	347.8	135.20	3.572		
17,900.0	10,106.6	18,126.8	10,344.1	69.6	69.5	119.51	-7,804.8	76.1	483.0	346.1	136.85	3.529		
18,000.0	10,106.1	18,226.8	10,343.6	70.5	70.3	119.51	-7,904.8	75.3	483.0	344.5	138.51	3.487		
18,100.0	10,105.6	18,326.8	10,343.1	71.3	71.2	119.52	-8,004.8	74.4	483.0	342.8	140.17	3.446		
18,200.0	10,105.1	18,426.8	10,342.7	72.2	72.1	119.52	-8,104.8	73.6	483.0	341.2	141.83	3.405		
18,300.0	10,104.6	18,526.8	10,342.2	73.0	72.9	119.53	-8,204.8	72.7	483.0	339.5	143.48	3.366		
18,400.0	10,104.1	18,626.8	10,341.8	73.9	73.8	119.53	-8,304.8	71.8	483.0	337.9	145.14	3.328		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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	Distance	Minimum	Separation	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Between	Separation	Factor	
										Centres	Ellipses		
										(usft)	(usft)		
18,500.0	10,103.6	18,726.8	10,341.3	74.7	74.6	119.53	119.53	-8,404.8	71.0	483.0	336.2	146.80	3.290
18,600.0	10,103.1	18,826.8	10,340.8	75.6	75.5	119.54	119.54	-8,504.7	70.1	483.0	334.6	148.46	3.253
18,700.0	10,102.6	18,926.8	10,340.4	76.4	76.3	119.54	119.54	-8,604.7	69.2	483.0	332.9	150.12	3.217
18,800.0	10,102.1	19,026.8	10,339.9	77.3	77.2	119.55	119.55	-8,704.7	68.4	483.0	331.2	151.78	3.182
18,900.0	10,101.6	19,126.8	10,339.5	78.1	78.0	119.55	119.55	-8,804.7	67.5	483.0	329.6	153.45	3.148
19,000.0	10,101.1	19,226.8	10,339.0	79.0	78.9	119.55	119.55	-8,904.7	66.7	483.0	327.9	155.11	3.114
19,100.0	10,100.6	19,326.8	10,338.5	79.8	79.7	119.56	119.56	-9,004.7	65.8	483.1	326.3	156.77	3.081
19,200.0	10,100.1	19,426.8	10,338.1	80.7	80.6	119.56	119.56	-9,104.7	64.9	483.1	324.6	158.43	3.049
19,300.0	10,099.6	19,526.8	10,337.6	81.5	81.4	119.57	119.57	-9,204.7	64.1	483.1	323.0	160.10	3.017
19,400.0	10,099.2	19,626.8	10,337.1	82.4	82.3	119.57	119.57	-9,304.7	63.2	483.1	321.3	161.76	2.986
19,500.0	10,098.7	19,726.8	10,336.7	83.2	83.1	119.58	119.58	-9,404.7	62.4	483.1	319.7	163.42	2.956
19,600.0	10,098.2	19,826.8	10,336.2	84.1	84.0	119.58	119.58	-9,504.7	61.5	483.1	318.0	165.09	2.926
19,700.0	10,097.7	19,926.8	10,335.8	84.9	84.8	119.58	119.58	-9,604.7	60.6	483.1	316.3	166.75	2.897
19,800.0	10,097.2	20,026.8	10,335.3	85.8	85.7	119.59	119.59	-9,704.7	59.8	483.1	314.7	168.42	2.869
19,900.0	10,096.7	20,126.8	10,334.8	86.6	86.5	119.59	119.59	-9,804.7	58.9	483.1	313.0	170.08	2.840
20,000.0	10,096.2	20,226.8	10,334.4	87.5	87.4	119.60	119.60	-9,904.7	58.0	483.1	311.4	171.75	2.813
20,100.0	10,095.7	20,326.8	10,333.9	88.3	88.3	119.60	119.60	-10,004.7	57.2	483.1	309.7	173.41	2.786
20,200.0	10,095.2	20,426.8	10,333.5	89.2	89.1	119.60	119.60	-10,104.7	56.3	483.1	308.1	175.08	2.760
20,300.0	10,094.7	20,526.8	10,333.0	90.0	90.0	119.61	119.61	-10,204.7	55.5	483.1	306.4	176.74	2.734
20,400.0	10,094.2	20,626.8	10,332.5	90.9	90.8	119.61	119.61	-10,304.7	54.6	483.2	304.7	178.41	2.708
20,500.0	10,093.7	20,726.8	10,332.1	91.8	91.7	119.62	119.62	-10,404.7	53.7	483.2	303.1	180.08	2.683
20,565.5	10,093.4	20,792.9	10,331.8	92.3	92.2	119.62	119.62	-10,470.8	53.2	483.2	302.0	181.18	2.667
20,592.1	10,093.3	20,822.8	10,331.6	92.5	92.5	119.62	119.62	-10,500.7	53.1	483.1	301.4	181.69	2.659
20,592.5	10,093.3	20,823.3	10,331.6	92.5	92.5	119.62	119.62	-10,501.1	53.1	483.1	301.4	181.70	2.659
20,600.0	10,093.2	20,830.7	10,331.6	92.6	92.6	119.62	119.62	-10,508.6	53.1	483.1	301.3	181.83	2.657
20,700.0	10,092.7	20,930.7	10,331.1	93.5	93.4	119.62	119.62	-10,608.6	53.2	483.1	299.6	183.49	2.633
20,800.0	10,092.2	21,030.7	10,330.7	94.3	94.3	119.63	119.63	-10,708.6	53.3	483.1	298.0	185.16	2.609
20,900.0	10,091.8	21,130.7	10,330.2	95.2	95.1	119.63	119.63	-10,808.6	53.3	483.2	296.3	186.83	2.586
21,000.0	10,091.3	21,230.7	10,329.8	96.0	96.0	119.63	119.63	-10,908.6	53.4	483.2	294.7	188.50	2.563
21,100.0	10,090.8	21,330.7	10,329.3	96.9	96.8	119.64	119.64	-11,008.6	53.5	483.2	293.0	190.17	2.541
21,200.0	10,090.3	21,430.7	10,328.8	97.7	97.7	119.64	119.64	-11,108.6	53.6	483.2	291.4	191.84	2.519
21,300.0	10,089.8	21,530.7	10,328.4	98.6	98.5	119.64	119.64	-11,208.6	53.6	483.2	289.7	193.51	2.497
21,400.0	10,089.3	21,630.7	10,327.9	99.4	99.4	119.65	119.65	-11,308.6	53.7	483.2	288.0	195.18	2.476
21,500.0	10,088.8	21,730.7	10,327.4	100.3	100.3	119.65	119.65	-11,408.6	53.8	483.2	286.4	196.85	2.455
21,600.0	10,088.3	21,830.7	10,327.0	101.2	101.1	119.65	119.65	-11,508.6	53.9	483.3	284.7	198.52	2.434
21,700.0	10,087.8	21,930.7	10,326.5	102.0	102.0	119.65	119.65	-11,608.6	53.9	483.3	283.1	200.19	2.414
21,800.0	10,087.3	22,030.7	10,326.1	102.9	102.8	119.66	119.66	-11,708.6	54.0	483.3	281.4	201.86	2.394
21,900.0	10,086.8	22,130.7	10,325.6	103.7	103.7	119.66	119.66	-11,808.6	54.1	483.3	279.8	203.54	2.374
22,000.0	10,086.3	22,230.7	10,325.1	104.6	104.5	119.66	119.66	-11,908.6	54.2	483.3	278.1	205.21	2.355
22,100.0	10,085.8	22,330.7	10,324.7	105.4	105.4	119.67	119.67	-12,008.6	54.2	483.3	276.4	206.88	2.336
22,200.0	10,085.4	22,430.7	10,324.2	106.3	106.3	119.67	119.67	-12,108.6	54.3	483.3	274.8	208.55	2.318
22,300.0	10,084.9	22,530.7	10,323.7	107.1	107.1	119.67	119.67	-12,208.6	54.4	483.3	273.1	210.22	2.299
22,400.0	10,084.4	22,630.7	10,323.3	108.0	108.0	119.68	119.68	-12,308.6	54.4	483.4	271.5	211.89	2.281
22,500.0	10,083.9	22,730.7	10,322.8	108.9	108.8	119.68	119.68	-12,408.6	54.5	483.4	269.8	213.57	2.263
22,600.0	10,083.4	22,830.7	10,322.4	109.7	109.7	119.68	119.68	-12,508.6	54.6	483.4	268.1	215.24	2.246
22,700.0	10,082.9	22,930.7	10,321.9	110.6	110.5	119.69	119.69	-12,608.6	54.7	483.4	266.5	216.91	2.229
22,800.0	10,082.4	23,030.7	10,321.4	111.4	111.4	119.69	119.69	-12,708.6	54.7	483.4	264.8	218.58	2.212
22,900.0	10,081.9	23,130.7	10,321.0	112.3	112.2	119.69	119.69	-12,808.6	54.8	483.4	263.2	220.26	2.195
23,000.0	10,081.4	23,230.7	10,320.5	113.1	113.1	119.70	119.70	-12,908.6	54.9	483.4	261.5	221.93	2.178
23,100.0	10,080.9	23,330.7	10,320.0	114.0	114.0	119.70	119.70	-13,008.6	55.0	483.4	259.8	223.60	2.162
23,200.0	10,080.4	23,430.7	10,319.6	114.8	114.8	119.70	119.70	-13,108.6	55.0	483.5	258.2	225.27	2.146

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	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		Offset Well Error:		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		
23,300.0	10,079.9	23,530.7	10,319.1	115.7	115.7	119.71	-13,208.6	55.1	483.5	256.5	226.95	2.130		
23,400.0	10,079.4	23,630.7	10,318.7	116.6	116.5	119.71	-13,308.6	55.2	483.5	254.9	228.62	2.115		
23,500.0	10,079.0	23,730.7	10,318.2	117.4	117.4	119.71	-13,408.6	55.3	483.5	253.2	230.30	2.099		
23,600.0	10,078.5	23,830.7	10,317.7	118.3	118.2	119.72	-13,508.6	55.3	483.5	251.5	231.97	2.084		
23,700.0	10,078.0	23,930.7	10,317.3	119.1	119.1	119.72	-13,608.6	55.4	483.5	249.9	233.64	2.070		
23,800.0	10,077.5	24,030.7	10,316.8	120.0	120.0	119.72	-13,708.6	55.5	483.5	248.2	235.32	2.055		
23,900.0	10,077.0	24,130.7	10,316.3	120.8	120.8	119.73	-13,808.6	55.6	483.6	246.6	236.99	2.040		
24,000.0	10,076.5	24,230.7	10,315.9	121.7	121.7	119.73	-13,908.6	55.6	483.6	244.9	238.66	2.026		
24,100.0	10,076.0	24,330.7	10,315.4	122.6	122.5	119.73	-14,008.5	55.7	483.6	243.2	240.34	2.012		
24,200.0	10,075.5	24,430.7	10,315.0	123.4	123.4	119.73	-14,108.5	55.8	483.6	241.6	242.01	1.998 Advise and Monitor		
24,300.0	10,075.0	24,530.7	10,314.5	124.3	124.2	119.74	-14,208.5	55.9	483.6	239.9	243.69	1.985 Advise and Monitor		
24,400.0	10,074.5	24,630.7	10,314.0	125.1	125.1	119.74	-14,308.5	55.9	483.6	238.3	245.36	1.971 Advise and Monitor		
24,500.0	10,074.0	24,730.7	10,313.6	126.0	126.0	119.74	-14,408.5	56.0	483.6	236.6	247.04	1.958 Advise and Monitor		
24,600.0	10,073.5	24,830.7	10,313.1	126.8	126.8	119.75	-14,508.5	56.1	483.6	234.9	248.71	1.945 Advise and Monitor		
24,700.0	10,073.0	24,930.7	10,312.6	127.7	127.7	119.75	-14,608.5	56.2	483.7	233.3	250.39	1.932 Advise and Monitor		
24,800.0	10,072.6	25,030.7	10,312.2	128.5	128.5	119.75	-14,708.5	56.2	483.7	231.6	252.06	1.919 Advise and Monitor		
24,900.0	10,072.1	25,130.7	10,311.7	129.4	129.4	119.76	-14,808.5	56.3	483.7	229.9	253.73	1.906 Advise and Monitor		
25,000.0	10,071.6	25,230.7	10,311.3	130.3	130.2	119.76	-14,908.5	56.4	483.7	228.3	255.41	1.894 Advise and Monitor		
25,100.0	10,071.1	25,330.7	10,310.8	131.1	131.1	119.76	-15,008.5	56.5	483.7	226.6	257.08	1.882 Advise and Monitor		
25,200.0	10,070.6	25,430.7	10,310.3	132.0	131.9	119.77	-15,108.5	56.5	483.7	225.0	258.76	1.869 Advise and Monitor		
25,300.0	10,070.1	25,530.7	10,309.9	132.8	132.8	119.77	-15,208.5	56.6	483.7	223.3	260.44	1.857 Advise and Monitor		
25,400.0	10,069.6	25,630.7	10,309.4	133.7	133.7	119.77	-15,308.5	56.7	483.7	221.6	262.11	1.846 Advise and Monitor		
25,500.0	10,069.1	25,730.7	10,308.9	134.5	134.5	119.78	-15,408.5	56.7	483.8	220.0	263.79	1.834 Advise and Monitor		
25,600.0	10,068.6	25,830.7	10,308.5	135.4	135.4	119.78	-15,508.5	56.8	483.8	218.3	265.46	1.822 Advise and Monitor		
25,700.0	10,068.1	25,930.7	10,308.0	136.3	136.2	119.78	-15,608.5	56.9	483.8	216.7	267.14	1.811 Advise and Monitor, SF		
25,724.6	10,068.0	25,935.7	10,308.0	136.5	136.3	119.78	-15,613.5	56.9	484.2	217.2	266.96	1.814 Advise and Monitor		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
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	0.0	0.0	3.0	3.0	-90.19	-0.2	-60.0	60.0					
100.0	100.0	99.4	99.4	3.0	3.0	-90.19	-0.2	-60.0	60.0	54.0	6.00	10.000		
200.0	200.0	199.4	199.4	3.0	3.0	-90.19	-0.2	-60.0	60.0	54.0	6.00	9.995		
300.0	300.0	299.4	299.4	3.0	3.0	-90.19	-0.2	-60.0	60.0	54.0	6.01	9.985		
400.0	400.0	399.4	399.4	3.0	3.0	-90.19	-0.2	-60.0	60.0	54.0	6.02	9.969		
500.0	500.0	499.4	499.4	3.1	3.1	-90.19	-0.2	-60.0	60.0	54.0	6.03	9.949		
600.0	600.0	599.4	599.4	3.1	3.1	-90.19	-0.2	-60.0	60.0	54.0	6.05	9.923		
700.0	700.0	699.4	699.4	3.1	3.1	-90.19	-0.2	-60.0	60.0	53.9	6.07	9.892		
800.0	800.0	799.4	799.4	3.2	3.2	-90.19	-0.2	-60.0	60.0	53.9	6.09	9.856		
900.0	900.0	899.4	899.4	3.2	3.2	-90.19	-0.2	-60.0	60.0	53.9	6.11	9.816		
1,000.0	1,000.0	999.4	999.4	3.2	3.2	-90.19	-0.2	-60.0	60.0	53.9	6.14	9.770		
1,100.0	1,100.0	1,099.4	1,099.4	3.3	3.3	-90.19	-0.2	-60.0	60.0	53.8	6.17	9.721		
1,200.0	1,200.0	1,199.4	1,199.4	3.4	3.4	-90.19	-0.2	-60.0	60.0	53.8	6.21	9.667		
1,300.0	1,300.0	1,299.4	1,299.4	3.4	3.4	-90.19	-0.2	-60.0	60.0	53.8	6.24	9.610		
1,400.0	1,400.0	1,399.4	1,399.4	3.5	3.5	-90.19	-0.2	-60.0	60.0	53.7	6.28	9.548		
1,500.0	1,500.0	1,499.4	1,499.4	3.5	3.5	-90.19	-0.2	-60.0	60.0	53.7	6.33	9.484		
1,600.0	1,600.0	1,599.4	1,599.4	3.6	3.6	-90.19	-0.2	-60.0	60.0	53.6	6.37	9.416		
1,700.0	1,700.0	1,699.4	1,699.4	3.7	3.7	-90.19	-0.2	-60.0	60.0	53.6	6.42	9.345		
1,800.0	1,800.0	1,799.4	1,799.4	3.8	3.8	-90.19	-0.2	-60.0	60.0	53.5	6.47	9.271		
1,900.0	1,900.0	1,899.4	1,899.4	3.9	3.9	-90.19	-0.2	-60.0	60.0	53.5	6.53	9.195		
2,000.0	2,000.0	1,999.4	1,999.4	3.9	3.9	-90.19	-0.2	-60.0	60.0	53.4	6.58	9.116		
2,100.0	2,100.0	2,099.4	2,099.4	4.0	4.0	-90.19	-0.2	-60.0	60.0	53.4	6.64	9.036		
2,200.0	2,200.0	2,199.4	2,199.4	4.1	4.1	-90.19	-0.2	-60.0	60.0	53.3	6.70	8.954		
2,300.0	2,300.0	2,299.4	2,299.4	4.2	4.2	-90.19	-0.2	-60.0	60.0	53.2	6.76	8.870		
2,400.0	2,400.0	2,399.4	2,399.4	4.3	4.3	-90.19	-0.2	-60.0	60.0	53.2	6.83	8.785		
2,500.0	2,500.0	2,499.4	2,499.4	4.4	4.4	-90.19	-0.2	-60.0	60.0	53.1	6.90	8.698 CC, ES		
2,600.0	2,600.0	2,597.4	2,597.4	4.5	4.5	-147.32	0.3	-61.6	63.1	56.1	6.97	9.052		
2,700.0	2,699.8	2,694.8	2,694.6	4.5	4.5	-148.12	1.9	-66.3	72.3	65.2	7.04	10.263		
2,750.0	2,749.7	2,743.1	2,742.8	4.6	4.5	-148.58	3.1	-69.8	79.2	72.1	7.08	11.179		
2,800.0	2,799.5	2,791.1	2,790.6	4.6	4.6	-148.99	4.5	-74.0	87.2	80.1	7.13	12.243		
2,900.0	2,899.1	2,889.4	2,888.4	4.7	4.6	-149.39	7.8	-83.7	104.4	97.2	7.22	14.464		
3,000.0	2,998.7	2,987.9	2,986.3	4.8	4.7	-149.68	11.1	-93.5	121.6	114.3	7.32	16.616		
3,100.0	3,098.4	3,086.4	3,084.3	4.8	4.7	-149.89	14.4	-103.2	138.8	131.4	7.42	18.695		
3,200.0	3,198.0	3,184.9	3,182.3	4.9	4.8	-150.06	17.7	-113.0	156.0	148.4	7.54	20.699		
3,300.0	3,297.6	3,283.4	3,280.2	5.0	4.9	-150.20	21.0	-122.7	173.2	165.5	7.65	22.627		
3,400.0	3,397.2	3,382.0	3,378.2	5.1	5.0	-150.31	24.3	-132.5	190.3	182.6	7.78	24.479		
3,500.0	3,496.8	3,480.5	3,476.2	5.2	5.0	-150.40	27.6	-142.3	207.5	199.6	7.90	26.255		
3,600.0	3,596.4	3,579.0	3,574.2	5.2	5.1	-150.48	30.9	-152.0	224.7	216.7	8.04	27.957		
3,700.0	3,696.1	3,677.5	3,672.1	5.3	5.2	-150.55	34.2	-161.8	241.9	233.7	8.18	29.584		
3,800.0	3,795.7	3,776.0	3,770.1	5.4	5.3	-150.61	37.5	-171.5	259.1	250.8	8.32	31.139		
3,900.0	3,895.3	3,874.5	3,868.1	5.5	5.3	-150.66	40.8	-181.3	276.3	267.8	8.47	32.623		
4,000.0	3,994.9	3,973.0	3,966.0	5.6	5.4	-150.70	44.1	-191.0	293.5	284.9	8.62	34.039		
4,100.0	4,094.5	4,071.5	4,064.0	5.7	5.5	-150.74	47.4	-200.8	310.7	301.9	8.78	35.389		
4,200.0	4,194.2	4,170.0	4,162.0	5.8	5.6	-150.78	50.7	-210.5	327.9	318.9	8.94	36.675		
4,300.0	4,293.8	4,268.6	4,260.0	5.9	5.7	-150.81	54.0	-220.3	345.0	335.9	9.10	37.900		
4,400.0	4,393.4	4,367.1	4,357.9	6.0	5.8	-150.84	57.3	-230.1	362.2	353.0	9.27	39.066		
4,500.0	4,493.0	4,465.6	4,455.9	6.1	5.9	-150.87	60.6	-239.8	379.4	370.0	9.44	40.176		
4,600.0	4,592.6	4,564.1	4,553.9	6.2	6.0	-150.89	63.9	-249.6	396.6	387.0	9.62	41.232		
4,700.0	4,692.3	4,662.6	4,651.8	6.3	6.1	-150.91	67.1	-259.3	413.8	404.0	9.80	42.236		
4,800.0	4,791.9	4,761.1	4,749.8	6.4	6.1	-150.94	70.4	-269.1	431.0	421.0	9.98	43.192		
4,900.0	4,891.5	4,859.6	4,847.8	6.5	6.2	-150.95	73.7	-278.8	448.2	438.0	10.16	44.101		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-Standard Keeper 104, 9577-MWD+IFR1+FDIR					Rule Assigned:							Offset Well Error:	3.0 usft
Measured Reference	Vertical	Measured Offset	Vertical	Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
5,000.0	4,991.1	4,958.1	4,945.8	6.6	6.3	-150.97	77.0	-288.6	465.4	455.0	10.35	44.966			
5,100.0	5,090.7	5,056.6	5,043.7	6.7	6.4	-150.99	80.3	-298.3	482.6	472.0	10.54	45.789			
5,200.0	5,190.4	5,155.2	5,141.7	6.8	6.5	-151.00	83.6	-308.1	499.8	489.0	10.73	46.572			
5,300.0	5,290.0	5,253.7	5,239.7	6.9	6.6	-151.02	86.9	-317.8	517.0	506.0	10.93	47.318			
5,400.0	5,389.6	5,352.2	5,337.6	7.0	6.7	-151.03	90.2	-327.6	534.1	523.0	11.12	48.027			
5,500.0	5,489.2	5,450.7	5,435.6	7.2	6.8	-151.04	93.5	-337.4	551.3	540.0	11.32	48.702			
5,600.0	5,588.8	5,549.2	5,533.6	7.3	7.0	-151.05	96.8	-347.1	568.5	557.0	11.52	49.345			
5,700.0	5,688.5	5,647.7	5,631.6	7.4	7.1	-151.07	100.1	-356.9	585.7	574.0	11.72	49.958			
5,800.0	5,788.1	5,746.2	5,729.5	7.5	7.2	-151.08	103.4	-366.6	602.9	591.0	11.93	50.541			
5,900.0	5,887.7	5,844.7	5,827.5	7.6	7.3	-151.09	106.7	-376.4	620.1	608.0	12.14	51.097			
6,000.0	5,987.3	5,943.2	5,925.5	7.7	7.4	-151.09	110.0	-386.1	637.3	625.0	12.34	51.627			
6,063.1	6,050.2	6,005.4	5,987.3	7.8	7.4	-151.10	112.1	-392.3	648.1	635.7	12.48	51.949			
6,100.0	6,086.9	6,041.8	6,023.5	7.8	7.5	-151.13	113.3	-395.9	654.4	641.8	12.55	52.124			
6,200.0	6,186.7	6,140.5	6,121.6	7.9	7.6	-151.15	116.6	-405.7	670.3	657.5	12.76	52.508			
6,300.0	6,286.5	6,239.4	6,220.1	8.1	7.7	-151.10	119.9	-415.5	684.6	671.7	12.97	52.768			
6,400.0	6,386.5	6,338.6	6,318.7	8.2	7.8	-150.97	123.2	-425.3	697.5	684.3	13.18	52.909			
6,500.0	6,486.4	6,437.9	6,417.4	8.3	7.9	-150.78	126.6	-435.1	708.9	695.5	13.39	52.931			
6,563.1	6,549.6	6,500.6	6,479.8	8.3	8.0	-93.81	128.6	-441.3	715.3	701.8	13.51	52.949			
6,600.0	6,586.4	6,537.3	6,516.3	8.4	8.0	-93.70	129.9	-445.0	718.8	705.3	13.57	52.982			
6,700.0	6,686.4	6,636.8	6,615.2	8.5	8.2	-93.38	133.2	-454.8	728.5	714.8	13.73	53.068			
6,800.0	6,786.4	6,736.2	6,714.1	8.6	8.3	-93.08	136.5	-464.7	738.2	724.3	13.89	53.151			
6,900.0	6,886.4	6,835.7	6,813.0	8.7	8.4	-92.78	139.9	-474.5	747.9	733.9	14.05	53.229			
7,000.0	6,986.4	6,935.1	6,911.9	8.8	8.5	-92.49	143.2	-484.4	757.7	743.5	14.21	53.304			
7,100.0	7,086.4	7,034.6	7,010.8	8.9	8.6	-92.21	146.5	-494.2	767.5	753.1	14.38	53.375			
7,200.0	7,186.4	7,134.0	7,109.7	9.0	8.7	-91.94	149.8	-504.1	777.2	762.7	14.54	53.442			
7,300.0	7,286.4	7,233.5	7,208.7	9.2	8.8	-91.67	153.2	-513.9	787.0	772.3	14.71	53.506			
7,400.0	7,386.4	7,332.9	7,307.6	9.3	9.0	-91.41	156.5	-523.8	796.9	782.0	14.88	53.567			
7,500.0	7,486.4	7,432.4	7,406.5	9.4	9.1	-91.15	159.8	-533.6	806.7	791.6	15.04	53.625			
7,600.0	7,586.4	7,533.7	7,507.2	9.5	9.2	-90.90	163.2	-543.6	816.5	801.3	15.21	53.688			
7,700.0	7,686.4	7,648.8	7,621.9	9.6	9.3	-90.65	166.6	-553.7	825.2	809.8	15.36	53.722			
7,800.0	7,786.4	7,764.4	7,737.1	9.7	9.5	-90.46	169.3	-561.6	832.0	816.5	15.52	53.611			
7,900.0	7,886.4	7,880.2	7,852.7	9.8	9.6	-90.33	171.2	-567.3	836.9	821.2	15.69	53.355			
8,000.0	7,986.4	7,996.2	7,968.7	10.0	9.7	-90.25	172.4	-570.7	839.9	824.1	15.86	52.958			
8,100.0	8,086.4	8,112.3	8,084.8	10.1	9.9	-90.22	172.8	-572.0	841.0	825.0	16.04	52.430			
8,200.0	8,186.4	8,213.3	8,185.8	10.2	10.0	-90.22	172.8	-572.0	841.0	824.9	16.14	52.100			
8,300.0	8,286.4	8,313.3	8,285.8	10.3	10.1	-90.22	172.8	-572.0	841.0	824.8	16.24	51.784			
8,400.0	8,386.4	8,413.3	8,385.8	10.4	10.2	-90.22	172.8	-572.0	841.0	824.7	16.34	51.469			
8,500.0	8,486.4	8,513.3	8,485.8	10.5	10.3	-90.22	172.8	-572.0	841.0	824.6	16.44	51.156			
8,600.0	8,586.4	8,613.3	8,585.8	10.7	10.4	-90.22	172.8	-572.0	841.0	824.5	16.54	50.846			
8,700.0	8,686.4	8,713.3	8,685.8	10.8	10.5	-90.22	172.8	-572.0	841.0	824.4	16.64	50.537			
8,800.0	8,786.4	8,813.3	8,785.8	10.9	10.6	-90.22	172.8	-572.0	841.0	824.3	16.74	50.231			
8,900.0	8,886.4	8,913.3	8,885.8	11.0	10.7	-90.22	172.8	-572.0	841.0	824.2	16.84	49.926			
9,000.0	8,986.4	9,013.3	8,985.8	11.1	10.8	-90.22	172.8	-572.0	841.0	824.1	16.95	49.624			
9,100.0	9,086.4	9,113.3	9,085.8	11.2	10.9	-90.22	172.8	-572.0	841.0	824.0	17.05	49.324			
9,200.0	9,186.4	9,213.3	9,185.8	11.4	11.0	-90.22	172.8	-572.0	841.0	823.9	17.15	49.026			
9,300.0	9,286.4	9,313.3	9,285.8	11.5	11.1	-90.22	172.8	-572.0	841.0	823.7	17.26	48.730			
9,400.0	9,386.4	9,413.3	9,385.8	11.6	11.2	-90.22	172.8	-572.0	841.0	823.6	17.36	48.436			
9,500.0	9,486.4	9,513.3	9,485.8	11.7	11.3	-90.22	172.8	-572.0	841.0	823.5	17.47	48.152			
9,583.7	9,570.1	9,598.3	9,570.8	11.8	11.3	-90.24	172.4	-572.0	841.0	823.5	17.52	48.013			
9,600.0	9,586.4	9,615.7	9,588.2	11.8	11.3	92.39	171.5	-571.9	841.0	823.4	17.52	47.998			
9,650.0	9,636.3	9,668.8	9,640.9	11.8	11.3	92.25	165.5	-571.7	840.9	823.3	17.54	47.940			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
9,700.0	9,685.6	9,721.7	9,692.7	11.8	11.4	92.09	154.8	-571.2	840.8	823.2	17.57	47.855	
9,750.0	9,734.1	9,774.4	9,743.0	11.8	11.4	91.92	139.3	-570.4	840.7	823.1	17.61	47.741	
9,800.0	9,781.3	9,826.7	9,791.5	11.8	11.4	91.73	119.5	-569.5	840.6	823.0	17.66	47.593	
9,850.0	9,827.0	9,878.8	9,837.6	11.9	11.5	91.53	95.5	-568.4	840.5	822.8	17.73	47.405	
9,900.0	9,870.6	9,930.6	9,881.2	11.9	11.5	91.31	67.5	-567.1	840.5	822.6	17.82	47.169	
9,950.0	9,912.0	9,982.1	9,921.8	12.0	11.5	91.09	35.9	-565.6	840.4	822.5	17.93	46.877	
10,000.0	9,950.8	10,033.3	9,959.2	12.0	11.6	90.86	1.1	-564.0	840.3	822.3	18.06	46.524	
10,050.0	9,986.6	10,084.1	9,993.1	12.1	11.7	90.62	-36.7	-562.2	840.3	822.0	18.23	46.101	
10,100.0	10,019.3	10,134.7	10,023.4	12.1	11.7	90.38	-77.1	-560.3	840.2	821.8	18.42	45.608	
10,150.0	10,048.6	10,184.9	10,049.8	12.2	11.8	90.14	-119.8	-558.3	840.2	821.6	18.65	45.042	
10,185.1	10,067.0	10,219.9	10,066.0	12.2	11.9	89.97	-150.8	-556.9	840.2	821.4	18.84	44.599	
10,200.0	10,074.3	10,234.8	10,072.3	12.2	11.9	89.90	-164.3	-556.2	840.2	821.3	18.92	44.409	
10,250.0	10,096.1	10,284.4	10,090.7	12.3	12.0	89.66	-210.2	-554.1	840.2	821.0	19.22	43.714	
10,300.0	10,113.9	10,333.7	10,105.0	12.4	12.0	89.42	-257.4	-551.9	840.3	820.7	19.56	42.969	
10,350.0	10,127.5	10,382.7	10,115.1	12.4	12.1	89.18	-305.2	-549.7	840.3	820.4	19.92	42.186	
10,400.0	10,137.0	10,431.4	10,121.1	12.5	12.2	88.96	-353.5	-547.4	840.4	820.0	20.31	41.379	
10,450.0	10,142.1	10,479.9	10,123.0	12.5	12.3	88.74	-402.0	-545.1	840.4	819.7	20.72	40.565	
10,486.5	10,143.1	10,516.3	10,122.8	12.6	12.3	88.66	-438.3	-543.4	840.4	819.4	21.04	39.953	
10,500.0	10,143.0	10,529.8	10,122.7	12.6	12.4	88.66	-451.8	-542.8	840.4	819.3	21.16	39.724	
10,600.0	10,142.5	10,629.8	10,122.3	12.7	12.6	88.67	-551.7	-538.1	840.4	818.3	22.11	38.013	
10,700.0	10,142.0	10,729.8	10,121.9	12.9	12.9	88.67	-651.6	-533.5	840.4	817.3	23.15	36.302	
10,800.0	10,141.5	10,829.8	10,121.5	13.1	13.2	88.67	-751.5	-528.8	840.4	816.1	24.27	34.626	
10,900.0	10,141.0	10,929.8	10,121.0	13.4	13.7	88.68	-851.4	-524.1	840.4	815.0	25.46	33.010	
11,000.0	10,140.5	11,029.8	10,120.6	13.8	14.2	88.68	-951.3	-519.4	840.4	813.7	26.71	31.468	
11,100.0	10,140.0	11,129.8	10,120.2	14.2	14.7	88.69	-1,051.2	-514.8	840.4	812.4	28.00	30.010	
11,200.0	10,139.5	11,229.8	10,119.8	14.8	15.3	88.69	-1,151.0	-510.1	840.4	811.1	29.35	28.637	
11,300.0	10,139.1	11,329.8	10,119.3	15.4	15.9	88.70	-1,250.9	-505.4	840.4	809.7	30.73	27.350	
11,400.0	10,138.6	11,429.8	10,118.9	16.0	16.6	88.70	-1,350.8	-500.8	840.4	808.2	32.14	26.146	
11,500.0	10,138.1	11,529.8	10,118.5	16.7	17.3	88.71	-1,450.7	-496.1	840.4	806.8	33.59	25.022	
11,600.0	10,137.6	11,629.8	10,118.0	17.4	18.0	88.71	-1,550.6	-491.4	840.4	805.3	35.05	23.974	
11,700.0	10,137.1	11,729.8	10,117.6	18.1	18.7	88.71	-1,650.5	-486.8	840.4	803.8	36.55	22.995	
11,800.0	10,136.6	11,829.8	10,117.2	18.8	19.4	88.72	-1,750.4	-482.1	840.4	802.3	38.06	22.082	
11,900.0	10,136.1	11,929.8	10,116.8	19.6	20.2	88.72	-1,850.3	-477.4	840.4	800.8	39.59	21.229	
12,000.0	10,135.6	12,029.8	10,116.3	20.3	20.9	88.73	-1,950.2	-472.8	840.4	799.2	41.13	20.431	
12,100.0	10,135.1	12,129.8	10,115.9	21.1	21.7	88.73	-2,050.0	-468.1	840.3	797.7	42.69	19.685	
12,200.0	10,134.6	12,229.8	10,115.5	21.9	22.5	88.74	-2,149.9	-463.4	840.3	796.1	44.26	18.986	
12,300.0	10,134.1	12,329.8	10,115.1	22.7	23.3	88.74	-2,249.8	-458.7	840.3	794.5	45.84	18.331	
12,400.0	10,133.6	12,429.8	10,114.6	23.5	24.1	88.74	-2,349.7	-454.1	840.3	792.9	47.44	17.715	
12,500.0	10,133.2	12,529.8	10,114.2	24.3	24.8	88.75	-2,449.6	-449.4	840.3	791.3	49.04	17.137	
12,600.0	10,132.7	12,629.8	10,113.8	25.1	25.6	88.75	-2,549.5	-444.7	840.3	789.7	50.65	16.592	
12,700.0	10,132.2	12,729.8	10,113.4	25.9	26.4	88.76	-2,649.4	-440.1	840.3	788.1	52.26	16.078	
12,800.0	10,131.7	12,829.8	10,112.9	26.7	27.3	88.76	-2,749.3	-435.4	840.3	786.4	53.89	15.594	
12,900.0	10,131.2	12,929.8	10,112.5	27.5	28.1	88.77	-2,849.2	-430.7	840.3	784.8	55.52	15.136	
13,000.0	10,130.7	13,029.8	10,112.1	28.3	28.9	88.77	-2,949.1	-426.1	840.3	783.1	57.15	14.702	
13,100.0	10,130.2	13,129.8	10,111.7	29.2	29.7	88.78	-3,048.9	-421.4	840.3	781.5	58.80	14.292	
13,200.0	10,129.7	13,229.8	10,111.2	30.0	30.5	88.78	-3,148.8	-416.7	840.3	779.8	60.44	13.903	
13,300.0	10,129.2	13,329.8	10,110.8	30.8	31.3	88.78	-3,248.7	-412.0	840.3	778.2	62.09	13.533	
13,400.0	10,128.7	13,429.8	10,110.4	31.6	32.2	88.79	-3,348.6	-407.4	840.3	776.5	63.75	13.182	
13,500.0	10,128.2	13,529.8	10,109.9	32.5	33.0	88.79	-3,448.5	-402.7	840.3	774.9	65.40	12.847	
13,600.0	10,127.7	13,629.8	10,109.5	33.3	33.8	88.80	-3,548.4	-398.0	840.3	773.2	67.07	12.529	
13,700.0	10,127.3	13,729.8	10,109.1	34.1	34.6	88.80	-3,648.3	-393.4	840.3	771.5	68.73	12.226	

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-Standard Keeper 104, 9577-MWD+IFR1+FDIR					Rule Assigned:							Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,800.0	10,126.8	13,829.8	10,108.7	35.0	35.5	88.81	-3,748.2	-388.7	840.3	769.9	70.40	11.936			
13,900.0	10,126.3	13,929.8	10,108.2	35.8	36.3	88.81	-3,848.1	-384.0	840.2	768.2	72.07	11.659			
14,000.0	10,125.8	14,029.8	10,107.8	36.6	37.1	88.82	-3,948.0	-379.4	840.2	766.5	73.74	11.394			
14,100.0	10,125.3	14,129.8	10,107.4	37.5	38.0	88.82	-4,047.8	-374.7	840.2	764.8	75.42	11.141			
14,200.0	10,124.8	14,229.8	10,107.0	38.3	38.8	88.82	-4,147.7	-370.0	840.2	763.1	77.09	10.899			
14,300.0	10,124.3	14,329.8	10,106.5	39.2	39.6	88.83	-4,247.6	-365.3	840.2	761.5	78.77	10.666			
14,400.0	10,123.8	14,429.8	10,106.1	40.0	40.5	88.83	-4,347.5	-360.7	840.2	759.8	80.46	10.443			
14,500.0	10,123.3	14,529.8	10,105.7	40.8	41.3	88.84	-4,447.4	-356.0	840.2	758.1	82.14	10.229			
14,600.0	10,122.8	14,629.8	10,105.3	41.7	42.2	88.84	-4,547.3	-351.3	840.2	756.4	83.83	10.023			
14,700.0	10,122.3	14,729.8	10,104.8	42.5	43.0	88.85	-4,647.2	-346.7	840.2	754.7	85.51	9.825			
14,800.0	10,121.8	14,829.8	10,104.4	43.4	43.8	88.85	-4,747.1	-342.0	840.2	753.0	87.20	9.635			
14,900.0	10,121.4	14,929.8	10,104.0	44.2	44.7	88.86	-4,847.0	-337.3	840.2	751.3	88.89	9.452			
15,000.0	10,120.9	15,029.8	10,103.6	45.1	45.5	88.86	-4,946.9	-332.7	840.2	749.6	90.58	9.275			
15,100.0	10,120.4	15,129.8	10,103.1	45.9	46.4	88.86	-5,046.7	-328.0	840.2	747.9	92.28	9.105			
15,153.6	10,120.1	15,183.4	10,102.9	46.4	46.8	88.87	-5,100.2	-325.5	840.2	747.0	93.18	9.016			
15,196.4	10,119.9	15,216.5	10,102.8	46.7	47.1	88.87	-5,133.3	-324.1	840.4	746.6	93.82	8.958			
15,200.0	10,119.9	15,219.3	10,102.7	46.8	47.1	88.87	-5,136.1	-324.0	840.5	746.6	93.87	8.953			
15,300.0	10,119.4	15,300.0	10,102.4	47.6	47.8	88.88	-5,216.8	-322.4	841.2	745.8	95.36	8.822			
15,300.9	10,119.4	15,300.0	10,102.4	47.6	47.8	88.88	-5,216.8	-322.4	841.2	745.8	95.36	8.821			
15,355.0	10,119.1	15,341.6	10,102.2	48.1	48.2	88.89	-5,258.4	-322.5	841.3	745.1	96.11	8.753			
15,372.6	10,119.0	15,356.0	10,102.2	48.2	48.3	88.89	-5,272.8	-322.6	841.2	744.9	96.36	8.730			
15,400.0	10,118.9	15,383.4	10,102.0	48.4	48.5	88.89	-5,300.2	-322.8	841.2	744.4	96.82	8.689			
15,500.0	10,118.4	15,483.4	10,101.6	49.3	49.4	88.90	-5,400.2	-323.7	841.2	742.7	98.51	8.540			
15,600.0	10,117.9	15,583.4	10,101.2	50.1	50.2	88.90	-5,500.2	-324.5	841.2	741.0	100.19	8.396			
15,700.0	10,117.4	15,683.4	10,100.8	51.0	51.0	88.91	-5,600.2	-325.4	841.2	739.3	101.88	8.257			
15,800.0	10,116.9	15,783.4	10,100.3	51.8	51.9	88.91	-5,700.2	-326.2	841.2	737.6	103.56	8.122			
15,900.0	10,116.4	15,883.4	10,099.9	52.7	52.7	88.92	-5,800.2	-327.1	841.1	735.9	105.25	7.992			
16,000.0	10,115.9	15,983.4	10,099.5	53.5	53.6	88.92	-5,900.2	-327.9	841.1	734.2	106.94	7.865			
16,100.0	10,115.4	16,083.4	10,099.1	54.3	54.4	88.92	-6,000.2	-328.8	841.1	732.5	108.63	7.743			
16,200.0	10,114.9	16,183.4	10,098.6	55.2	55.2	88.93	-6,100.2	-329.6	841.1	730.8	110.32	7.624			
16,300.0	10,114.5	16,283.4	10,098.2	56.0	56.1	88.93	-6,200.2	-330.5	841.1	729.0	112.01	7.509			
16,400.0	10,114.0	16,383.4	10,097.8	56.9	56.9	88.94	-6,300.2	-331.3	841.0	727.3	113.70	7.397			
16,500.0	10,113.5	16,483.4	10,097.3	57.7	57.8	88.94	-6,400.1	-332.2	841.0	725.6	115.39	7.288			
16,600.0	10,113.0	16,583.4	10,096.9	58.6	58.6	88.95	-6,500.1	-333.0	841.0	723.9	117.09	7.183			
16,700.0	10,112.5	16,683.4	10,096.5	59.4	59.5	88.95	-6,600.1	-333.9	841.0	722.2	118.78	7.080			
16,800.0	10,112.0	16,783.4	10,096.1	60.3	60.3	88.96	-6,700.1	-334.7	841.0	720.5	120.47	6.980			
16,900.0	10,111.5	16,883.4	10,095.6	61.1	61.2	88.96	-6,800.1	-335.6	840.9	718.8	122.17	6.883			
17,000.0	10,111.0	16,983.4	10,095.2	62.0	62.0	88.97	-6,900.1	-336.5	840.9	717.0	123.86	6.789			
17,100.0	10,110.5	17,083.4	10,094.8	62.8	62.9	88.97	-7,000.1	-337.3	840.9	715.3	125.56	6.697			
17,200.0	10,110.0	17,183.4	10,094.4	63.7	63.7	88.97	-7,100.1	-338.2	840.9	713.6	127.26	6.608			
17,300.0	10,109.5	17,283.4	10,093.9	64.5	64.5	88.98	-7,200.1	-339.0	840.8	711.9	128.95	6.520			
17,400.0	10,109.0	17,383.4	10,093.5	65.4	65.4	88.98	-7,300.1	-339.9	840.8	710.2	130.65	6.436			
17,500.0	10,108.5	17,483.4	10,093.1	66.2	66.2	88.99	-7,400.1	-340.7	840.8	708.5	132.35	6.353			
17,600.0	10,108.0	17,583.4	10,092.6	67.1	67.1	88.99	-7,500.1	-341.6	840.8	706.7	134.05	6.272			
17,700.0	10,107.5	17,683.4	10,092.2	67.9	67.9	89.00	-7,600.1	-342.4	840.8	705.0	135.75	6.194			
17,800.0	10,107.0	17,783.4	10,091.8	68.8	68.8	89.00	-7,700.1	-343.3	840.7	703.3	137.45	6.117			
17,900.0	10,106.6	17,883.4	10,091.4	69.6	69.6	89.01	-7,800.1	-344.1	840.7	701.6	139.15	6.042			
18,000.0	10,106.1	17,983.4	10,090.9	70.5	70.5	89.01	-7,900.1	-345.0	840.7	699.9	140.85	5.969			
18,100.0	10,105.6	18,083.4	10,090.5	71.3	71.3	89.01	-8,000.1	-345.8	840.7	698.1	142.55	5.898			
18,200.0	10,105.1	18,183.4	10,090.1	72.2	72.2	89.02	-8,100.1	-346.7	840.7	696.4	144.25	5.828			
18,300.0	10,104.6	18,283.4	10,089.7	73.0	73.0	89.02	-8,200.1	-347.5	840.6	694.7	145.95	5.760			

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
18,400.0	10,104.1	18,383.4	10,089.2	73.9	73.9	89.03	-8,300.1	-348.4	840.6	693.0	147.65	5.693		
18,500.0	10,103.6	18,483.4	10,088.8	74.7	74.7	89.03	-8,400.1	-349.2	840.6	691.2	149.35	5.628		
18,600.0	10,103.1	18,583.4	10,088.4	75.6	75.6	89.04	-8,500.0	-350.1	840.6	689.5	151.05	5.565		
18,700.0	10,102.6	18,683.4	10,087.9	76.4	76.4	89.04	-8,600.0	-350.9	840.6	687.8	152.76	5.503		
18,800.0	10,102.1	18,783.4	10,087.5	77.3	77.3	89.05	-8,700.0	-351.8	840.5	686.1	154.46	5.442		
18,900.0	10,101.6	18,883.4	10,087.1	78.1	78.1	89.05	-8,800.0	-352.6	840.5	684.3	156.16	5.382		
19,000.0	10,101.1	18,983.4	10,086.7	79.0	79.0	89.06	-8,900.0	-353.5	840.5	682.6	157.87	5.324		
19,100.0	10,100.6	19,083.4	10,086.2	79.8	79.8	89.06	-9,000.0	-354.3	840.5	680.9	159.57	5.267		
19,200.0	10,100.1	19,183.4	10,085.8	80.7	80.7	89.06	-9,100.0	-355.2	840.4	679.2	161.27	5.211		
19,300.0	10,099.6	19,283.4	10,085.4	81.5	81.5	89.07	-9,200.0	-356.1	840.4	677.5	162.98	5.157		
19,400.0	10,099.2	19,383.4	10,085.0	82.4	82.4	89.07	-9,300.0	-356.9	840.4	675.7	164.68	5.103		
19,500.0	10,098.7	19,483.4	10,084.5	83.2	83.2	89.08	-9,400.0	-357.8	840.4	674.0	166.39	5.051		
19,600.0	10,098.2	19,583.4	10,084.1	84.1	84.1	89.08	-9,500.0	-358.6	840.4	672.3	168.09	4.999		
19,700.0	10,097.7	19,683.4	10,083.7	84.9	84.9	89.09	-9,600.0	-359.5	840.3	670.5	169.80	4.949		
19,800.0	10,097.2	19,783.4	10,083.2	85.8	85.8	89.09	-9,700.0	-360.3	840.3	668.8	171.50	4.900		
19,900.0	10,096.7	19,883.4	10,082.8	86.6	86.7	89.10	-9,800.0	-361.2	840.3	667.1	173.21	4.851		
20,000.0	10,096.2	19,983.4	10,082.4	87.5	87.5	89.10	-9,900.0	-362.0	840.3	665.4	174.91	4.804		
20,100.0	10,095.7	20,083.4	10,082.0	88.3	88.4	89.10	-10,000.0	-362.9	840.3	663.6	176.62	4.757		
20,200.0	10,095.2	20,183.4	10,081.5	89.2	89.2	89.11	-10,100.0	-363.7	840.2	661.9	178.32	4.712		
20,300.0	10,094.7	20,283.4	10,081.1	90.0	90.1	89.11	-10,200.0	-364.6	840.2	660.2	180.03	4.667		
20,400.0	10,094.2	20,383.4	10,080.7	90.9	90.9	89.12	-10,300.0	-365.4	840.2	658.5	181.74	4.623		
20,500.0	10,093.7	20,483.4	10,080.3	91.8	91.8	89.12	-10,400.0	-366.3	840.2	656.7	183.44	4.580		
20,565.5	10,093.4	20,551.0	10,080.0	92.3	92.3	89.13	-10,467.6	-366.8	840.2	655.6	184.59	4.551		
20,592.5	10,093.3	20,583.7	10,079.8	92.5	92.6	89.12	-10,500.3	-366.9	840.1	655.0	185.12	4.538		
20,600.0	10,093.2	20,591.2	10,079.8	92.6	92.7	89.12	-10,507.8	-366.9	840.1	654.8	185.25	4.535		
20,700.0	10,092.7	20,691.2	10,079.4	93.5	93.5	89.13	-10,607.8	-366.8	840.1	653.1	186.96	4.493		
20,800.0	10,092.2	20,791.2	10,078.9	94.3	94.4	89.13	-10,707.8	-366.7	840.1	651.4	188.67	4.453		
20,900.0	10,091.8	20,891.2	10,078.5	95.2	95.2	89.14	-10,807.8	-366.6	840.1	649.7	190.38	4.413		
21,000.0	10,091.3	20,991.2	10,078.1	96.0	96.1	89.14	-10,907.8	-366.6	840.1	648.0	192.09	4.373		
21,100.0	10,090.8	21,091.2	10,077.7	96.9	97.0	89.15	-11,007.8	-366.5	840.1	646.3	193.80	4.335		
21,200.0	10,090.3	21,191.2	10,077.2	97.7	97.8	89.15	-11,107.8	-366.4	840.0	644.5	195.51	4.297		
21,300.0	10,089.8	21,291.2	10,076.8	98.6	98.7	89.16	-11,207.8	-366.3	840.0	642.8	197.22	4.259		
21,400.0	10,089.3	21,391.2	10,076.4	99.4	99.5	89.16	-11,307.7	-366.3	840.0	641.1	198.93	4.223		
21,500.0	10,088.8	21,491.2	10,075.9	100.3	100.4	89.16	-11,407.7	-366.2	840.0	639.4	200.64	4.187		
21,600.0	10,088.3	21,591.2	10,075.5	101.2	101.2	89.17	-11,507.7	-366.1	840.0	637.7	202.35	4.151		
21,700.0	10,087.8	21,691.2	10,075.1	102.0	102.1	89.17	-11,607.7	-366.0	840.0	636.0	204.06	4.117		
21,800.0	10,087.3	21,791.2	10,074.7	102.9	102.9	89.18	-11,707.7	-366.0	840.0	634.2	205.77	4.082		
21,900.0	10,086.8	21,891.2	10,074.2	103.7	103.8	89.18	-11,807.7	-365.9	840.0	632.5	207.48	4.049		
22,000.0	10,086.3	21,991.2	10,073.8	104.6	104.6	89.19	-11,907.7	-365.8	840.0	630.8	209.19	4.016		
22,100.0	10,085.8	22,091.2	10,073.4	105.4	105.5	89.19	-12,007.7	-365.7	840.0	629.1	210.90	3.983		
22,200.0	10,085.4	22,191.2	10,072.9	106.3	106.4	89.19	-12,107.7	-365.7	840.0	627.4	212.61	3.951		
22,300.0	10,084.9	22,291.2	10,072.5	107.1	107.2	89.20	-12,207.7	-365.6	840.0	625.7	214.32	3.919		
22,400.0	10,084.4	22,391.2	10,072.1	108.0	108.1	89.20	-12,307.7	-365.5	840.0	624.0	216.03	3.888		
22,500.0	10,083.9	22,491.2	10,071.7	108.9	108.9	89.21	-12,407.7	-365.4	840.0	622.2	217.74	3.858		
22,600.0	10,083.4	22,591.2	10,071.2	109.7	109.8	89.21	-12,507.7	-365.4	840.0	620.5	219.46	3.828		
22,700.0	10,082.9	22,691.2	10,070.8	110.6	110.6	89.22	-12,607.7	-365.3	840.0	618.8	221.17	3.798		
22,800.0	10,082.4	22,791.2	10,070.4	111.4	111.5	89.22	-12,707.7	-365.2	840.0	617.1	222.88	3.769		
22,900.0	10,081.9	22,891.2	10,069.9	112.3	112.3	89.22	-12,807.7	-365.1	840.0	615.4	224.59	3.740		
23,000.0	10,081.4	22,991.2	10,069.5	113.1	113.2	89.23	-12,907.7	-365.0	840.0	613.7	226.30	3.712		
23,100.0	10,080.9	23,091.2	10,069.1	114.0	114.1	89.23	-13,007.7	-365.0	840.0	611.9	228.01	3.684		
23,200.0	10,080.4	23,191.2	10,068.7	114.8	114.9	89.24	-13,107.7	-364.9	839.9	610.2	229.73	3.656		

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9577-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Rule Assigned:		Distance	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
23,300.0	10,079.9	23,291.2	10,068.2	115.7	115.8	89.24	-13,207.7	-364.8	839.9	608.5	231.44	3.629	
23,400.0	10,079.4	23,391.2	10,067.8	116.6	116.6	89.25	-13,307.7	-364.7	839.9	606.8	233.15	3.603	
23,500.0	10,079.0	23,491.2	10,067.4	117.4	117.5	89.25	-13,407.7	-364.7	839.9	605.1	234.86	3.576	
23,600.0	10,078.5	23,591.2	10,066.9	118.3	118.3	89.26	-13,507.7	-364.6	839.9	603.4	236.57	3.550	
23,700.0	10,078.0	23,691.2	10,066.5	119.1	119.2	89.26	-13,607.7	-364.5	839.9	601.6	238.29	3.525	
23,800.0	10,077.5	23,791.2	10,066.1	120.0	120.0	89.26	-13,707.7	-364.4	839.9	599.9	240.00	3.500	
23,900.0	10,077.0	23,891.2	10,065.7	120.8	120.9	89.27	-13,807.7	-364.4	839.9	598.2	241.71	3.475	
24,000.0	10,076.5	23,991.2	10,065.2	121.7	121.8	89.27	-13,907.7	-364.3	839.9	596.5	243.42	3.450	
24,100.0	10,076.0	24,091.2	10,064.8	122.6	122.6	89.28	-14,007.7	-364.2	839.9	594.8	245.13	3.426	
24,200.0	10,075.5	24,191.2	10,064.4	123.4	123.5	89.28	-14,107.7	-364.1	839.9	593.1	246.85	3.403	
24,300.0	10,075.0	24,291.2	10,063.9	124.3	124.3	89.29	-14,207.7	-364.1	839.9	591.3	248.56	3.379	
24,400.0	10,074.5	24,391.2	10,063.5	125.1	125.2	89.29	-14,307.7	-364.0	839.9	589.6	250.27	3.356	
24,500.0	10,074.0	24,491.2	10,063.1	126.0	126.0	89.29	-14,407.7	-363.9	839.9	587.9	251.99	3.333	
24,600.0	10,073.5	24,591.2	10,062.7	126.8	126.9	89.30	-14,507.7	-363.8	839.9	586.2	253.70	3.311	
24,700.0	10,073.0	24,691.2	10,062.2	127.7	127.8	89.30	-14,607.7	-363.8	839.9	584.5	255.41	3.288	
24,800.0	10,072.6	24,791.2	10,061.8	128.5	128.6	89.31	-14,707.7	-363.7	839.9	582.7	257.12	3.266	
24,900.0	10,072.1	24,891.2	10,061.4	129.4	129.5	89.31	-14,807.7	-363.6	839.9	581.0	258.84	3.245	
25,000.0	10,071.6	24,991.2	10,060.9	130.3	130.3	89.32	-14,907.7	-363.5	839.9	579.3	260.55	3.223	
25,100.0	10,071.1	25,091.2	10,060.5	131.1	131.2	89.32	-15,007.7	-363.4	839.9	577.6	262.26	3.202	
25,200.0	10,070.6	25,191.2	10,060.1	132.0	132.0	89.33	-15,107.7	-363.4	839.9	575.9	263.98	3.182	
25,300.0	10,070.1	25,291.2	10,059.7	132.8	132.9	89.33	-15,207.7	-363.3	839.8	574.2	265.69	3.161	
25,400.0	10,069.6	25,391.2	10,059.2	133.7	133.7	89.33	-15,307.7	-363.2	839.8	572.4	267.40	3.141	
25,500.0	10,069.1	25,491.2	10,058.8	134.5	134.6	89.34	-15,407.7	-363.1	839.8	570.7	269.12	3.121	
25,600.0	10,068.6	25,591.2	10,058.4	135.4	135.5	89.34	-15,507.7	-363.1	839.8	569.0	270.83	3.101	
25,686.1	10,068.2	25,677.3	10,058.0	136.1	136.2	89.35	-15,593.8	-363.0	839.8	567.5	272.31	3.084	
25,700.0	10,068.1	25,678.8	10,058.0	136.3	136.2	89.35	-15,595.3	-363.0	839.9	567.6	272.36	3.084 SF	
25,724.6	10,068.0	25,678.8	10,058.0	136.5	136.2	89.35	-15,595.3	-363.0	840.6	568.4	272.26	3.088	

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

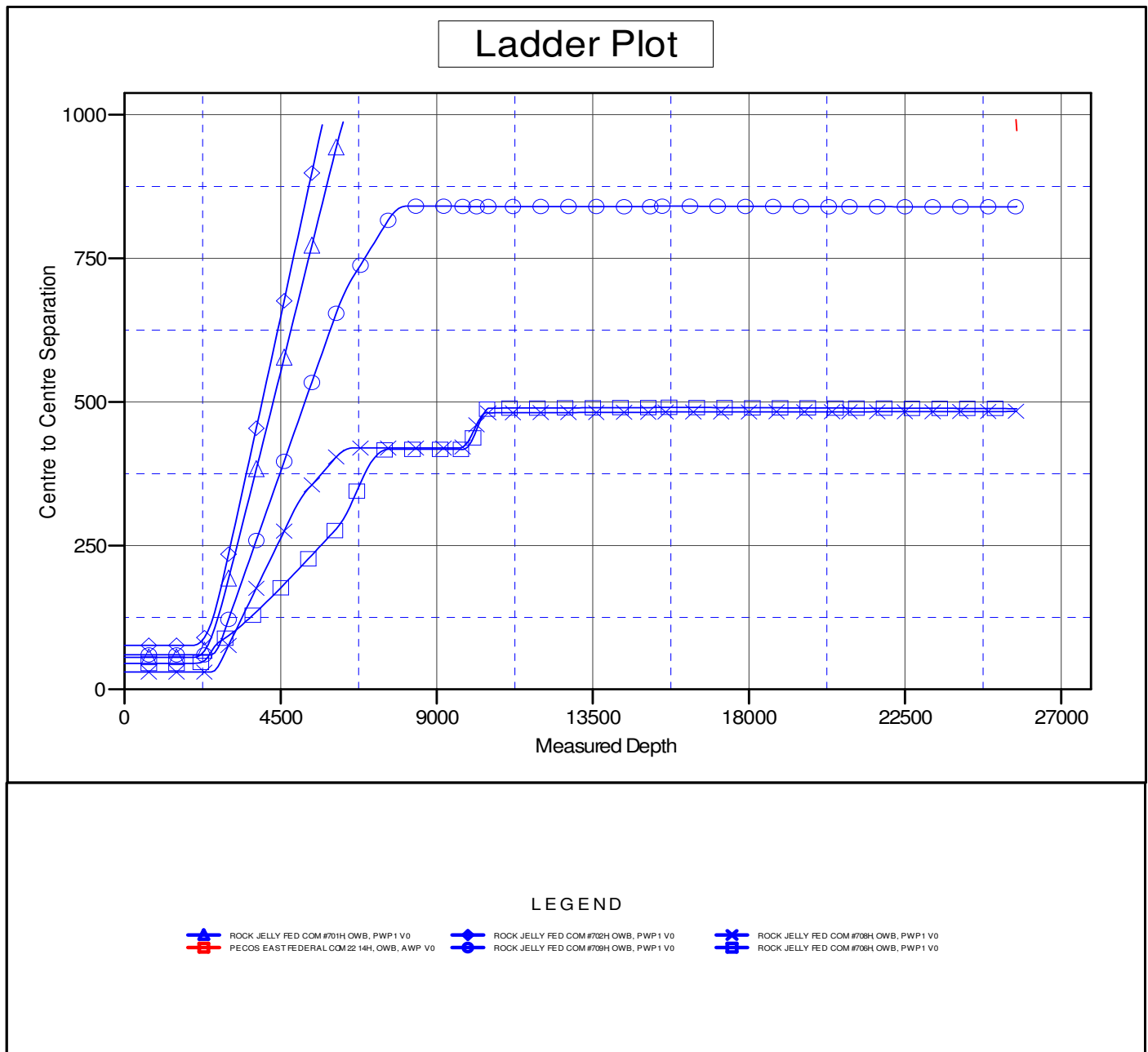
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3003.1usft (P84)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #707H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.19°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3003.1usft (P84)

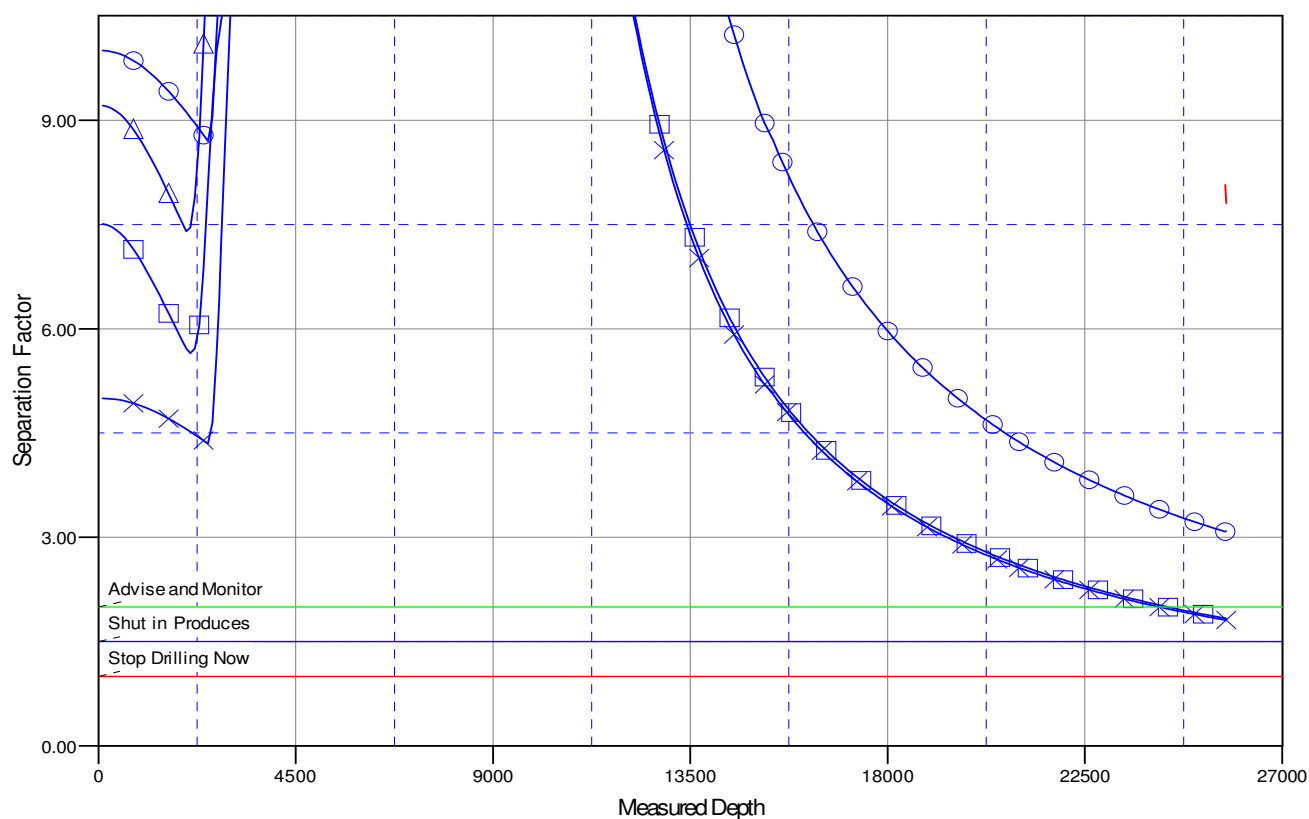
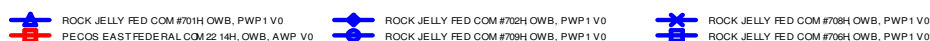
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #707H

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

Grid Convergence at Surface is: 0.19°

Separation Factor Plot**LEGEND**

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #707H

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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	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 #707H					
Well Position	+N/-S	0.0 usft	Northing:	392,346.70 usft	Latitude:	32° 4' 41.324 N
	+E/-W	0.0 usft	Easting:	613,648.10 usft	Longitude:	103° 57' 59.075 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,978.1 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	12/16/2021	6.64	59.69	47,529.89780903

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	178.25	

Survey Tool Program	Date	1/18/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,583.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,583.0	25,724.6	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 #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	56.80	2,600.0	1.0	1.5	-0.9	2.00	2.00	0.00
2,700.0	4.00	56.80	2,699.8	3.8	5.8	-3.6	2.00	2.00	0.00
2,750.0	5.00	56.80	2,749.7	6.0	9.1	-5.7	2.00	2.00	0.00
Start 3313.1 hold at 2750.0 MD									
2,800.0	5.00	56.80	2,799.5	8.4	12.8	-8.0	0.00	0.00	0.00
2,900.0	5.00	56.80	2,899.1	13.1	20.1	-12.5	0.00	0.00	0.00
3,000.0	5.00	56.80	2,998.7	17.9	27.4	-17.1	0.00	0.00	0.00
3,100.0	5.00	56.80	3,098.4	22.7	34.6	-21.6	0.00	0.00	0.00
3,200.0	5.00	56.80	3,198.0	27.4	41.9	-26.2	0.00	0.00	0.00
3,300.0	5.00	56.80	3,297.6	32.2	49.2	-30.7	0.00	0.00	0.00
3,400.0	5.00	56.80	3,397.2	37.0	56.5	-35.2	0.00	0.00	0.00
3,500.0	5.00	56.80	3,496.8	41.8	63.8	-39.8	0.00	0.00	0.00
3,600.0	5.00	56.80	3,596.4	46.5	71.1	-44.3	0.00	0.00	0.00
3,700.0	5.00	56.80	3,696.1	51.3	78.4	-48.9	0.00	0.00	0.00
3,800.0	5.00	56.80	3,795.7	56.1	85.7	-53.4	0.00	0.00	0.00
3,900.0	5.00	56.80	3,895.3	60.8	93.0	-58.0	0.00	0.00	0.00
4,000.0	5.00	56.80	3,994.9	65.6	100.3	-62.5	0.00	0.00	0.00
4,100.0	5.00	56.80	4,094.5	70.4	107.6	-67.1	0.00	0.00	0.00
4,200.0	5.00	56.80	4,194.2	75.2	114.9	-71.6	0.00	0.00	0.00
4,300.0	5.00	56.80	4,293.8	79.9	122.2	-76.2	0.00	0.00	0.00
4,400.0	5.00	56.80	4,393.4	84.7	129.5	-80.7	0.00	0.00	0.00
4,500.0	5.00	56.80	4,493.0	89.5	136.8	-85.3	0.00	0.00	0.00
4,600.0	5.00	56.80	4,592.6	94.2	144.0	-89.8	0.00	0.00	0.00
4,700.0	5.00	56.80	4,692.3	99.0	151.3	-94.4	0.00	0.00	0.00
4,800.0	5.00	56.80	4,791.9	103.8	158.6	-98.9	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	5.00	56.80	4,891.5	108.6	165.9	-103.5	0.00	0.00	0.00
5,000.0	5.00	56.80	4,991.1	113.3	173.2	-108.0	0.00	0.00	0.00
5,100.0	5.00	56.80	5,090.7	118.1	180.5	-112.5	0.00	0.00	0.00
5,200.0	5.00	56.80	5,190.4	122.9	187.8	-117.1	0.00	0.00	0.00
5,300.0	5.00	56.80	5,290.0	127.6	195.1	-121.6	0.00	0.00	0.00
5,400.0	5.00	56.80	5,389.6	132.4	202.4	-126.2	0.00	0.00	0.00
5,500.0	5.00	56.80	5,489.2	137.2	209.7	-130.7	0.00	0.00	0.00
5,600.0	5.00	56.80	5,588.8	142.0	217.0	-135.3	0.00	0.00	0.00
5,700.0	5.00	56.80	5,688.5	146.7	224.3	-139.8	0.00	0.00	0.00
5,800.0	5.00	56.80	5,788.1	151.5	231.6	-144.4	0.00	0.00	0.00
5,900.0	5.00	56.80	5,887.7	156.3	238.9	-148.9	0.00	0.00	0.00
6,000.0	5.00	56.80	5,987.3	161.1	246.2	-153.5	0.00	0.00	0.00
6,063.1	5.00	56.80	6,050.2	164.1	250.8	-156.3	0.00	0.00	0.00
Start Drop -1.00									
6,100.0	4.63	56.80	6,086.9	165.8	253.3	-158.0	1.00	-1.00	0.00
6,200.0	3.63	56.80	6,186.7	169.7	259.4	-161.7	1.00	-1.00	0.00
6,300.0	2.63	56.80	6,286.5	172.7	263.9	-164.6	1.00	-1.00	0.00
6,400.0	1.63	56.80	6,386.5	174.7	267.1	-166.5	1.00	-1.00	0.00
6,500.0	0.63	56.80	6,486.4	175.8	268.7	-167.5	1.00	-1.00	0.00
6,563.1	0.00	0.00	6,549.6	176.0	269.0	-167.7	1.00	-1.00	-90.01
Start 3020.5 hold at 6563.1 MD									
6,600.0	0.00	0.00	6,586.4	176.0	269.0	-167.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,686.4	176.0	269.0	-167.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,786.4	176.0	269.0	-167.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,886.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,986.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,086.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,186.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,286.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,386.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,486.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,586.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,686.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,786.4	176.0	269.0	-167.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,886.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,986.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,086.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,186.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,286.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,386.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,486.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,586.4	176.0	269.0	-167.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,700.0	0.00	0.00	8,686.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,786.4	176.0	269.0	-167.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,886.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,986.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,086.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,186.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,286.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,386.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,486.4	176.0	269.0	-167.7	0.00	0.00	0.00
9,583.7	0.00	0.00	9,570.1	176.0	269.0	-167.7	0.00	0.00	0.00
Start DLS 10.00 TFO 177.33									
9,600.0	1.63	177.33	9,586.4	175.8	269.0	-167.5	10.00	10.00	0.00
9,700.0	11.63	177.33	9,685.6	164.2	269.5	-155.9	10.00	10.00	0.00
9,800.0	21.63	177.33	9,781.3	135.7	270.9	-127.4	10.00	10.00	0.00
9,900.0	31.63	177.33	9,870.6	91.0	273.0	-82.6	10.00	10.00	0.00
10,000.0	41.63	177.33	9,950.8	31.4	275.8	-23.0	10.00	10.00	0.00
10,100.0	51.63	177.33	10,019.3	-41.1	279.1	49.6	10.00	10.00	0.00
10,200.0	61.63	177.33	10,074.3	-124.4	283.0	133.0	10.00	10.00	0.00
10,300.0	71.63	177.33	10,113.9	-216.0	287.3	224.7	10.00	10.00	0.00
10,400.0	81.63	177.33	10,137.0	-313.1	291.8	321.8	10.00	10.00	0.00
10,486.5	90.28	177.33	10,143.1	-399.1	295.9	408.0	10.00	10.00	0.00
Start 4709.9 hold at 10486.5 MD									
10,500.0	90.28	177.33	10,143.0	-412.7	296.5	421.5	0.00	0.00	0.00
10,600.0	90.28	177.33	10,142.5	-512.5	301.2	521.5	0.00	0.00	0.00
10,700.0	90.28	177.33	10,142.0	-612.4	305.8	621.5	0.00	0.00	0.00
10,800.0	90.28	177.33	10,141.5	-712.3	310.5	721.5	0.00	0.00	0.00
10,900.0	90.28	177.33	10,141.0	-812.2	315.2	821.4	0.00	0.00	0.00
11,000.0	90.28	177.33	10,140.5	-912.1	319.8	921.4	0.00	0.00	0.00
11,100.0	90.28	177.33	10,140.0	-1,012.0	324.5	1,021.4	0.00	0.00	0.00
11,200.0	90.28	177.33	10,139.5	-1,111.9	329.2	1,121.4	0.00	0.00	0.00
11,300.0	90.28	177.33	10,139.1	-1,211.8	333.8	1,221.4	0.00	0.00	0.00
11,400.0	90.28	177.33	10,138.6	-1,311.7	338.5	1,321.4	0.00	0.00	0.00
11,500.0	90.28	177.33	10,138.1	-1,411.6	343.2	1,421.4	0.00	0.00	0.00
11,600.0	90.28	177.33	10,137.6	-1,511.4	347.8	1,521.3	0.00	0.00	0.00
11,700.0	90.28	177.33	10,137.1	-1,611.3	352.5	1,621.3	0.00	0.00	0.00
11,800.0	90.28	177.33	10,136.6	-1,711.2	357.2	1,721.3	0.00	0.00	0.00
11,900.0	90.28	177.33	10,136.1	-1,811.1	361.8	1,821.3	0.00	0.00	0.00
12,000.0	90.28	177.33	10,135.6	-1,911.0	366.5	1,921.3	0.00	0.00	0.00
12,100.0	90.28	177.33	10,135.1	-2,010.9	371.1	2,021.3	0.00	0.00	0.00
12,200.0	90.28	177.33	10,134.6	-2,110.8	375.8	2,121.3	0.00	0.00	0.00
12,300.0	90.28	177.33	10,134.1	-2,210.7	380.5	2,221.2	0.00	0.00	0.00
12,400.0	90.28	177.33	10,133.6	-2,310.6	385.1	2,321.2	0.00	0.00	0.00
12,500.0	90.28	177.33	10,133.2	-2,410.5	389.8	2,421.2	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,600.0	90.28	177.33	10,132.7	-2,510.3	394.5	2,521.2	0.00	0.00	0.00
12,700.0	90.28	177.33	10,132.2	-2,610.2	399.1	2,621.2	0.00	0.00	0.00
12,800.0	90.28	177.33	10,131.7	-2,710.1	403.8	2,721.2	0.00	0.00	0.00
12,900.0	90.28	177.33	10,131.2	-2,810.0	408.5	2,821.2	0.00	0.00	0.00
13,000.0	90.28	177.33	10,130.7	-2,909.9	413.1	2,921.1	0.00	0.00	0.00
13,100.0	90.28	177.33	10,130.2	-3,009.8	417.8	3,021.1	0.00	0.00	0.00
13,200.0	90.28	177.33	10,129.7	-3,109.7	422.5	3,121.1	0.00	0.00	0.00
13,300.0	90.28	177.33	10,129.2	-3,209.6	427.1	3,221.1	0.00	0.00	0.00
13,400.0	90.28	177.33	10,128.7	-3,309.5	431.8	3,321.1	0.00	0.00	0.00
13,500.0	90.28	177.33	10,128.2	-3,409.4	436.5	3,421.1	0.00	0.00	0.00
13,600.0	90.28	177.33	10,127.7	-3,509.2	441.1	3,521.1	0.00	0.00	0.00
13,700.0	90.28	177.33	10,127.3	-3,609.1	445.8	3,621.0	0.00	0.00	0.00
13,800.0	90.28	177.33	10,126.8	-3,709.0	450.5	3,721.0	0.00	0.00	0.00
13,900.0	90.28	177.33	10,126.3	-3,808.9	455.1	3,821.0	0.00	0.00	0.00
14,000.0	90.28	177.33	10,125.8	-3,908.8	459.8	3,921.0	0.00	0.00	0.00
14,100.0	90.28	177.33	10,125.3	-4,008.7	464.5	4,021.0	0.00	0.00	0.00
14,200.0	90.28	177.33	10,124.8	-4,108.6	469.1	4,121.0	0.00	0.00	0.00
14,300.0	90.28	177.33	10,124.3	-4,208.5	473.8	4,221.0	0.00	0.00	0.00
14,400.0	90.28	177.33	10,123.8	-4,308.4	478.5	4,320.9	0.00	0.00	0.00
14,500.0	90.28	177.33	10,123.3	-4,408.3	483.1	4,420.9	0.00	0.00	0.00
14,600.0	90.28	177.33	10,122.8	-4,508.1	487.8	4,520.9	0.00	0.00	0.00
14,700.0	90.28	177.33	10,122.3	-4,608.0	492.5	4,620.9	0.00	0.00	0.00
14,800.0	90.28	177.33	10,121.8	-4,707.9	497.1	4,720.9	0.00	0.00	0.00
14,900.0	90.28	177.33	10,121.4	-4,807.8	501.8	4,820.9	0.00	0.00	0.00
15,000.0	90.28	177.33	10,120.9	-4,907.7	506.5	4,920.9	0.00	0.00	0.00
15,100.0	90.28	177.33	10,120.4	-5,007.6	511.1	5,020.8	0.00	0.00	0.00
15,196.4	90.28	177.33	10,119.9	-5,103.8	515.6	5,117.2	0.00	0.00	0.00
Start DLS 2.00 TFO 89.97									
15,200.0	90.28	177.40	10,119.9	-5,107.5	515.8	5,120.8	2.00	0.00	2.00
15,300.0	90.28	179.40	10,119.4	-5,207.4	518.6	5,220.8	2.00	0.00	2.00
15,355.0	90.28	180.50	10,119.1	-5,262.5	518.6	5,275.8	2.00	0.00	2.00
Start 5210.5 hold at 15355.0 MD									
15,400.0	90.28	180.50	10,118.9	-5,307.4	518.2	5,320.8	0.00	0.00	0.00
15,500.0	90.28	180.50	10,118.4	-5,407.4	517.4	5,420.7	0.00	0.00	0.00
15,600.0	90.28	180.50	10,117.9	-5,507.4	516.5	5,520.6	0.00	0.00	0.00
15,700.0	90.28	180.50	10,117.4	-5,607.4	515.6	5,620.5	0.00	0.00	0.00
15,800.0	90.28	180.50	10,116.9	-5,707.4	514.7	5,720.5	0.00	0.00	0.00
15,900.0	90.28	180.50	10,116.4	-5,807.4	513.9	5,820.4	0.00	0.00	0.00
16,000.0	90.28	180.50	10,115.9	-5,907.4	513.0	5,920.3	0.00	0.00	0.00
16,100.0	90.28	180.50	10,115.4	-6,007.4	512.1	6,020.2	0.00	0.00	0.00
16,200.0	90.28	180.50	10,114.9	-6,107.4	511.3	6,120.1	0.00	0.00	0.00
16,300.0	90.28	180.50	10,114.5	-6,207.4	510.4	6,220.1	0.00	0.00	0.00
16,400.0	90.28	180.50	10,114.0	-6,307.4	509.5	6,320.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,500.0	90.28	180.50	10,113.5	-6,407.4	508.6	6,419.9	0.00	0.00	0.00
16,600.0	90.28	180.50	10,113.0	-6,507.4	507.8	6,519.8	0.00	0.00	0.00
16,700.0	90.28	180.50	10,112.5	-6,607.4	506.9	6,619.7	0.00	0.00	0.00
16,800.0	90.28	180.50	10,112.0	-6,707.4	506.0	6,719.7	0.00	0.00	0.00
16,900.0	90.28	180.50	10,111.5	-6,807.4	505.2	6,819.6	0.00	0.00	0.00
17,000.0	90.28	180.50	10,111.0	-6,907.4	504.3	6,919.5	0.00	0.00	0.00
17,100.0	90.28	180.50	10,110.5	-7,007.3	503.4	7,019.4	0.00	0.00	0.00
17,200.0	90.28	180.50	10,110.0	-7,107.3	502.5	7,119.4	0.00	0.00	0.00
17,300.0	90.28	180.50	10,109.5	-7,207.3	501.7	7,219.3	0.00	0.00	0.00
17,400.0	90.28	180.50	10,109.0	-7,307.3	500.8	7,319.2	0.00	0.00	0.00
17,500.0	90.28	180.50	10,108.5	-7,407.3	499.9	7,419.1	0.00	0.00	0.00
17,600.0	90.28	180.50	10,108.0	-7,507.3	499.1	7,519.0	0.00	0.00	0.00
17,700.0	90.28	180.50	10,107.5	-7,607.3	498.2	7,619.0	0.00	0.00	0.00
17,800.0	90.28	180.50	10,107.0	-7,707.3	497.3	7,718.9	0.00	0.00	0.00
17,900.0	90.28	180.50	10,106.6	-7,807.3	496.4	7,818.8	0.00	0.00	0.00
18,000.0	90.28	180.50	10,106.1	-7,907.3	495.6	7,918.7	0.00	0.00	0.00
18,100.0	90.28	180.50	10,105.6	-8,007.3	494.7	8,018.7	0.00	0.00	0.00
18,200.0	90.28	180.50	10,105.1	-8,107.3	493.8	8,118.6	0.00	0.00	0.00
18,300.0	90.28	180.50	10,104.6	-8,207.3	493.0	8,218.5	0.00	0.00	0.00
18,400.0	90.28	180.50	10,104.1	-8,307.3	492.1	8,318.4	0.00	0.00	0.00
18,500.0	90.28	180.50	10,103.6	-8,407.3	491.2	8,418.3	0.00	0.00	0.00
18,600.0	90.28	180.50	10,103.1	-8,507.3	490.3	8,518.3	0.00	0.00	0.00
18,700.0	90.28	180.50	10,102.6	-8,607.3	489.5	8,618.2	0.00	0.00	0.00
18,800.0	90.28	180.50	10,102.1	-8,707.3	488.6	8,718.1	0.00	0.00	0.00
18,900.0	90.28	180.50	10,101.6	-8,807.3	487.7	8,818.0	0.00	0.00	0.00
19,000.0	90.28	180.50	10,101.1	-8,907.3	486.9	8,918.0	0.00	0.00	0.00
19,100.0	90.28	180.50	10,100.6	-9,007.2	486.0	9,017.9	0.00	0.00	0.00
19,200.0	90.28	180.50	10,100.1	-9,107.2	485.1	9,117.8	0.00	0.00	0.00
19,300.0	90.28	180.50	10,099.6	-9,207.2	484.2	9,217.7	0.00	0.00	0.00
19,400.0	90.28	180.50	10,099.2	-9,307.2	483.4	9,317.6	0.00	0.00	0.00
19,500.0	90.28	180.50	10,098.7	-9,407.2	482.5	9,417.6	0.00	0.00	0.00
19,600.0	90.28	180.50	10,098.2	-9,507.2	481.6	9,517.5	0.00	0.00	0.00
19,700.0	90.28	180.50	10,097.7	-9,607.2	480.7	9,617.4	0.00	0.00	0.00
19,800.0	90.28	180.50	10,097.2	-9,707.2	479.9	9,717.3	0.00	0.00	0.00
19,900.0	90.28	180.50	10,096.7	-9,807.2	479.0	9,817.3	0.00	0.00	0.00
20,000.0	90.28	180.50	10,096.2	-9,907.2	478.1	9,917.2	0.00	0.00	0.00
20,100.0	90.28	180.50	10,095.7	-10,007.2	477.3	10,017.1	0.00	0.00	0.00
20,200.0	90.28	180.50	10,095.2	-10,107.2	476.4	10,117.0	0.00	0.00	0.00
20,300.0	90.28	180.50	10,094.7	-10,207.2	475.5	10,216.9	0.00	0.00	0.00
20,400.0	90.28	180.50	10,094.2	-10,307.2	474.6	10,316.9	0.00	0.00	0.00
20,500.0	90.28	180.50	10,093.7	-10,407.2	473.8	10,416.8	0.00	0.00	0.00
20,565.5	90.28	180.50	10,093.4	-10,472.7	473.2	10,482.2	0.00	0.00	0.00
Start DLS 2.00 TFO -90.07									

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Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,592.5	90.28	179.96	10,093.3	-10,499.7	473.1	10,509.3	2.00	0.00	-2.00
Start 5132.1 hold at 20592.5 MD									
20,600.0	90.28	179.96	10,093.2	-10,507.2	473.1	10,516.7	0.00	0.00	0.00
20,700.0	90.28	179.96	10,092.7	-10,607.2	473.2	10,616.7	0.00	0.00	0.00
20,800.0	90.28	179.96	10,092.2	-10,707.2	473.2	10,716.6	0.00	0.00	0.00
20,900.0	90.28	179.96	10,091.8	-10,807.2	473.3	10,816.6	0.00	0.00	0.00
21,000.0	90.28	179.96	10,091.3	-10,907.2	473.4	10,916.5	0.00	0.00	0.00
21,100.0	90.28	179.96	10,090.8	-11,007.2	473.5	11,016.5	0.00	0.00	0.00
21,200.0	90.28	179.96	10,090.3	-11,107.2	473.5	11,116.4	0.00	0.00	0.00
21,300.0	90.28	179.96	10,089.8	-11,207.2	473.6	11,216.4	0.00	0.00	0.00
21,400.0	90.28	179.96	10,089.3	-11,307.2	473.7	11,316.3	0.00	0.00	0.00
21,500.0	90.28	179.96	10,088.8	-11,407.2	473.7	11,416.3	0.00	0.00	0.00
21,600.0	90.28	179.96	10,088.3	-11,507.2	473.8	11,516.3	0.00	0.00	0.00
21,700.0	90.28	179.96	10,087.8	-11,607.2	473.9	11,616.2	0.00	0.00	0.00
21,800.0	90.28	179.96	10,087.3	-11,707.2	474.0	11,716.2	0.00	0.00	0.00
21,900.0	90.28	179.96	10,086.8	-11,807.2	474.0	11,816.1	0.00	0.00	0.00
22,000.0	90.28	179.96	10,086.3	-11,907.2	474.1	11,916.1	0.00	0.00	0.00
22,100.0	90.28	179.96	10,085.8	-12,007.2	474.2	12,016.0	0.00	0.00	0.00
22,200.0	90.28	179.96	10,085.4	-12,107.2	474.3	12,116.0	0.00	0.00	0.00
22,300.0	90.28	179.96	10,084.9	-12,207.2	474.3	12,215.9	0.00	0.00	0.00
22,400.0	90.28	179.96	10,084.4	-12,307.1	474.4	12,315.9	0.00	0.00	0.00
22,500.0	90.28	179.96	10,083.9	-12,407.1	474.5	12,415.8	0.00	0.00	0.00
22,600.0	90.28	179.96	10,083.4	-12,507.1	474.5	12,515.8	0.00	0.00	0.00
22,700.0	90.28	179.96	10,082.9	-12,607.1	474.6	12,615.8	0.00	0.00	0.00
22,800.0	90.28	179.96	10,082.4	-12,707.1	474.7	12,715.7	0.00	0.00	0.00
22,900.0	90.28	179.96	10,081.9	-12,807.1	474.8	12,815.7	0.00	0.00	0.00
23,000.0	90.28	179.96	10,081.4	-12,907.1	474.8	12,915.6	0.00	0.00	0.00
23,100.0	90.28	179.96	10,080.9	-13,007.1	474.9	13,015.6	0.00	0.00	0.00
23,200.0	90.28	179.96	10,080.4	-13,107.1	475.0	13,115.5	0.00	0.00	0.00
23,300.0	90.28	179.96	10,079.9	-13,207.1	475.0	13,215.5	0.00	0.00	0.00
23,400.0	90.28	179.96	10,079.4	-13,307.1	475.1	13,315.4	0.00	0.00	0.00
23,500.0	90.28	179.96	10,079.0	-13,407.1	475.2	13,415.4	0.00	0.00	0.00
23,600.0	90.28	179.96	10,078.5	-13,507.1	475.3	13,515.3	0.00	0.00	0.00
23,700.0	90.28	179.96	10,078.0	-13,607.1	475.3	13,615.3	0.00	0.00	0.00
23,800.0	90.28	179.96	10,077.5	-13,707.1	475.4	13,715.3	0.00	0.00	0.00
23,900.0	90.28	179.96	10,077.0	-13,807.1	475.5	13,815.2	0.00	0.00	0.00
24,000.0	90.28	179.96	10,076.5	-13,907.1	475.6	13,915.2	0.00	0.00	0.00
24,100.0	90.28	179.96	10,076.0	-14,007.1	475.6	14,015.1	0.00	0.00	0.00
24,200.0	90.28	179.96	10,075.5	-14,107.1	475.7	14,115.1	0.00	0.00	0.00
24,300.0	90.28	179.96	10,075.0	-14,207.1	475.8	14,215.0	0.00	0.00	0.00
24,400.0	90.28	179.96	10,074.5	-14,307.1	475.8	14,315.0	0.00	0.00	0.00
24,500.0	90.28	179.96	10,074.0	-14,407.1	475.9	14,414.9	0.00	0.00	0.00

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Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
24,600.0	90.28	179.96	10,073.5	-14,507.1	476.0	14,514.9	0.00	0.00	0.00
24,700.0	90.28	179.96	10,073.0	-14,607.1	476.1	14,614.8	0.00	0.00	0.00
24,800.0	90.28	179.96	10,072.6	-14,707.1	476.1	14,714.8	0.00	0.00	0.00
24,900.0	90.28	179.96	10,072.1	-14,807.1	476.2	14,814.8	0.00	0.00	0.00
25,000.0	90.28	179.96	10,071.6	-14,907.1	476.3	14,914.7	0.00	0.00	0.00
25,100.0	90.28	179.96	10,071.1	-15,007.1	476.3	15,014.7	0.00	0.00	0.00
25,200.0	90.28	179.96	10,070.6	-15,107.1	476.4	15,114.6	0.00	0.00	0.00
25,300.0	90.28	179.96	10,070.1	-15,207.1	476.5	15,214.6	0.00	0.00	0.00
25,400.0	90.28	179.96	10,069.6	-15,307.1	476.6	15,314.5	0.00	0.00	0.00
25,500.0	90.28	179.96	10,069.1	-15,407.1	476.6	15,414.5	0.00	0.00	0.00
25,600.0	90.28	179.96	10,068.6	-15,507.1	476.7	15,514.4	0.00	0.00	0.00
25,700.0	90.28	179.96	10,068.1	-15,607.1	476.8	15,614.4	0.00	0.00	0.00
25,724.6	90.28	179.96	10,068.0	-15,631.7	476.8	15,639.0	0.00	0.00	0.00
TD at 25724.6									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(ROCK JELLY F - plan hits target center - Rectangle (sides W100.0 H5,150.0 D20.0)	0.28	359.96	10,068.0	-15,631.7	476.8	376,715.00	614,124.90	32° 2' 6.609 N	103° 57' 54.154 W
LTP(ROCK JELLY FE - plan misses target center by 1.6usft at 25594.4usft MD (10068.6 TVD, -15501.5 N, 476.7 E) - Point	0.00	0.01	10,068.0	-15,501.5	475.2	376,845.20	614,123.30	32° 2' 7.898 N	103° 57' 54.167 W
POI#2(ROCK JELLY I - plan hits target center - Rectangle (sides W100.0 H5,380.0 D20.0)	0.28	0.50	10,093.4	-10,472.7	473.2	381,874.03	614,121.31	32° 2' 57.666 N	103° 57' 53.991 W
POI#1(ROCK JELLY I - plan hits target center - Rectangle (sides W100.0 H5,275.0 D20.0)	0.28	357.33	10,119.9	-5,103.8	515.6	387,242.86	614,163.72	32° 3' 50.796 N	103° 57' 53.285 W
FTP(ROCK JELLY FE - plan misses target center by 84.9usft at 10195.5usft MD (10072.1 TVD, -120.5 N, 282.8 E) - Circle (radius 50.0)	0.00	0.01	10,143.0	-73.9	278.8	392,272.80	613,926.90	32° 4' 40.583 N	103° 57' 55.838 W

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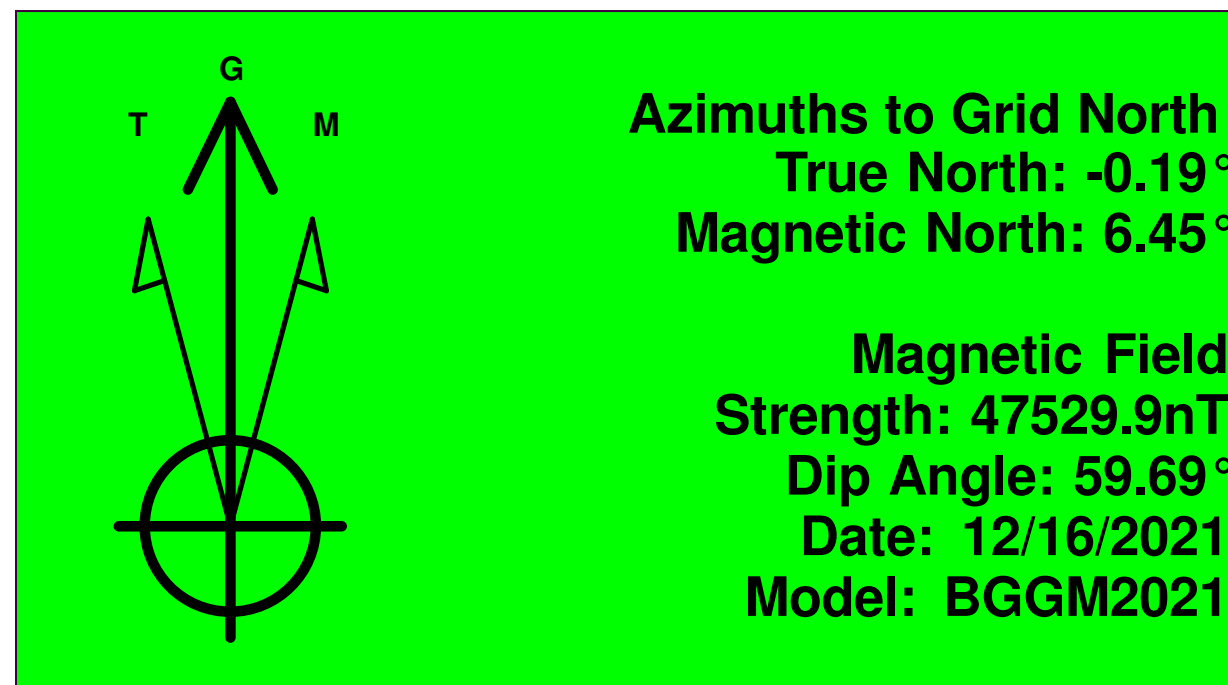
Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #707H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3003.1usft (P84)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=25' @ 3003.1usft (P84)
Well:	ROCK JELLY FED COM #707H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2750	2750	6	9	Start 3313.1 hold at 2750.0 MD
6063	6050	164	251	Start Drop -1.00
6563	6550	176	269	Start 3020.5 hold at 6563.1 MD
9584	9570	176	269	Start DLS 10.00 TFO 177.33
10,486	10,143	-399	296	Start 4709.9 hold at 10486.5 MD
15,196	10,120	-5104	516	Start DLS 2.00 TFO 89.97
15,355	10,119	-5262	519	Start 5210.5 hold at 15355.0 MD
20,565	10,093	-10,473	473	Start DLS 2.00 TFO -90.07
20,593	10,093	-10,500	473	Start 5132.1 hold at 20592.5 MD
25,725	10,068	-15,632	477	TD at 25724.6

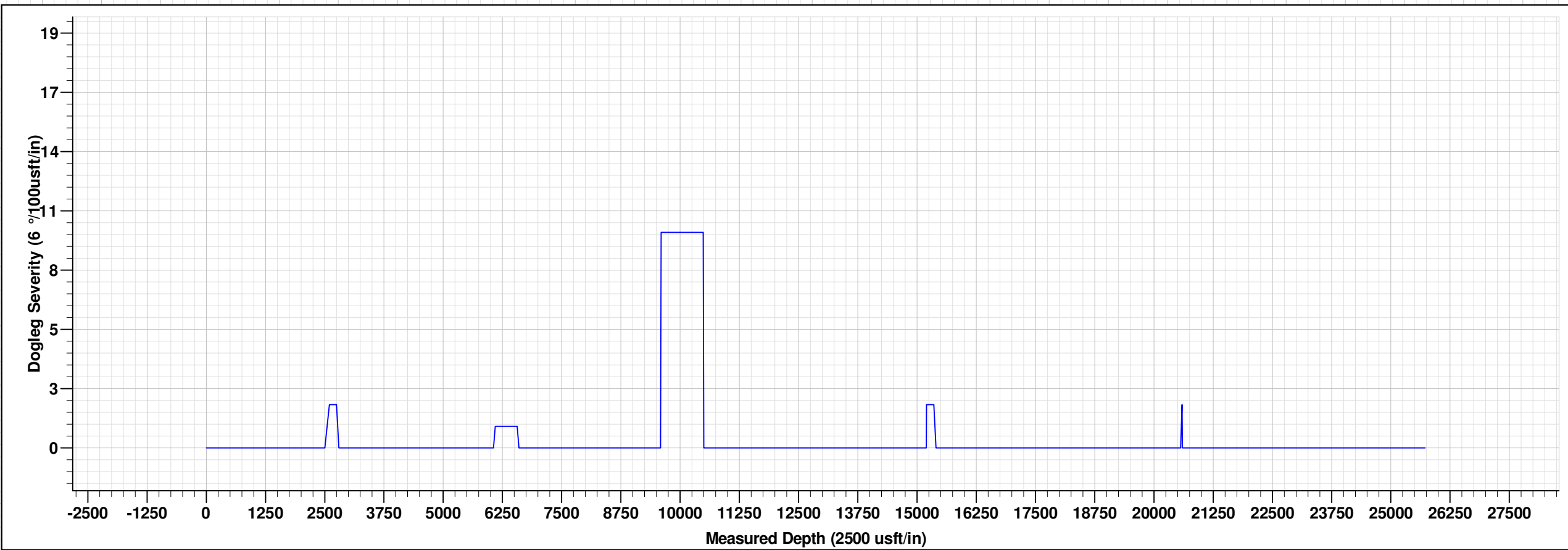
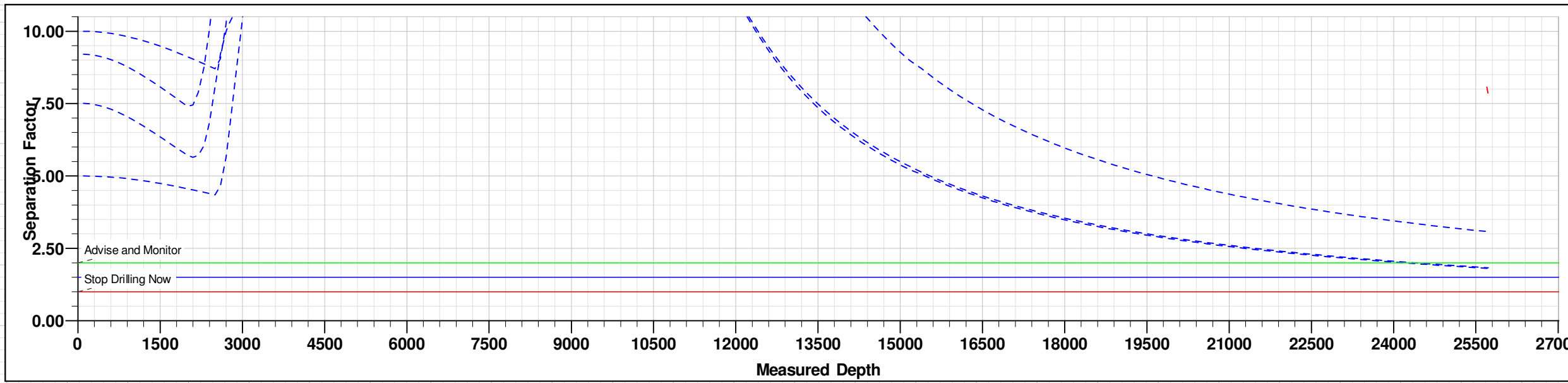
Checked By: _____ Approved By: _____ Date: _____



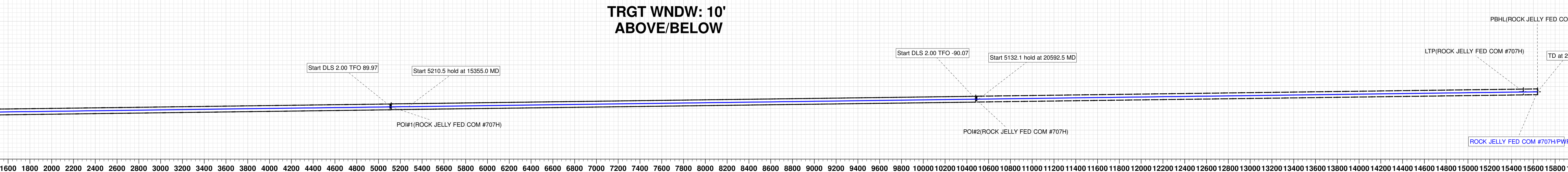
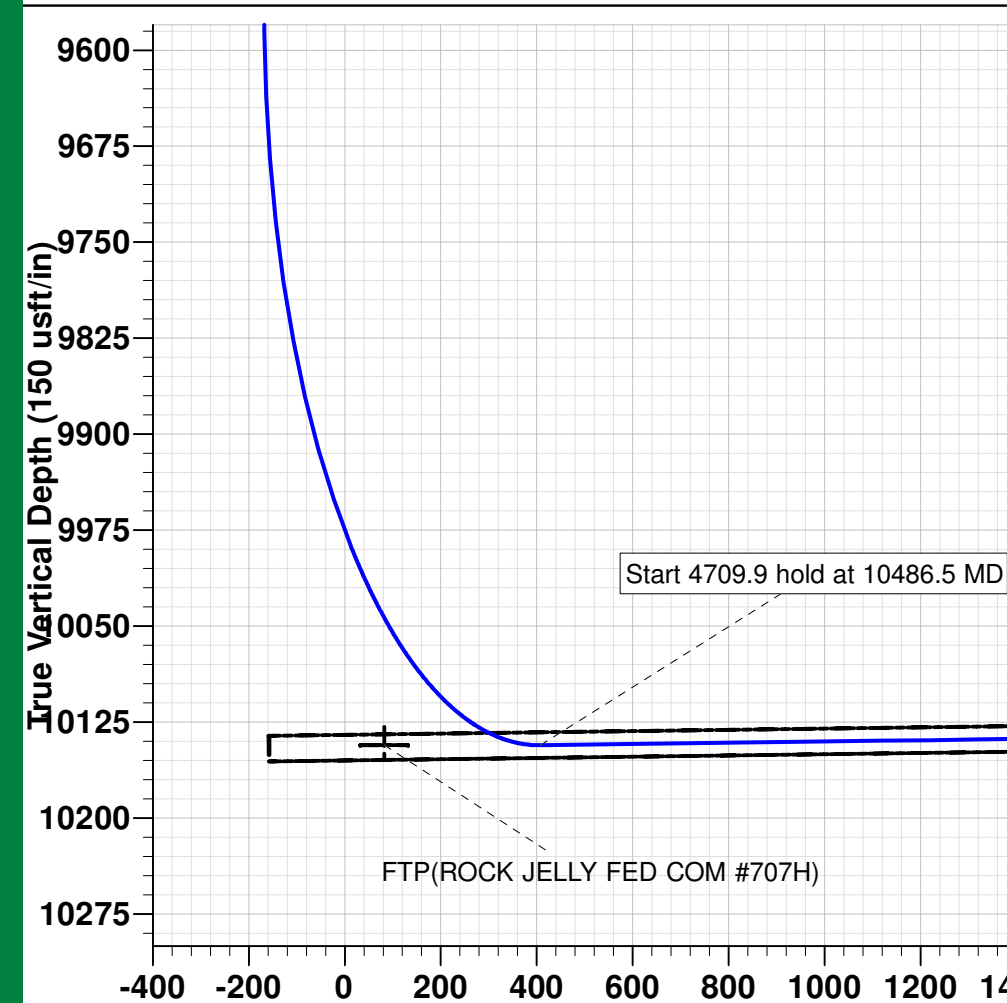
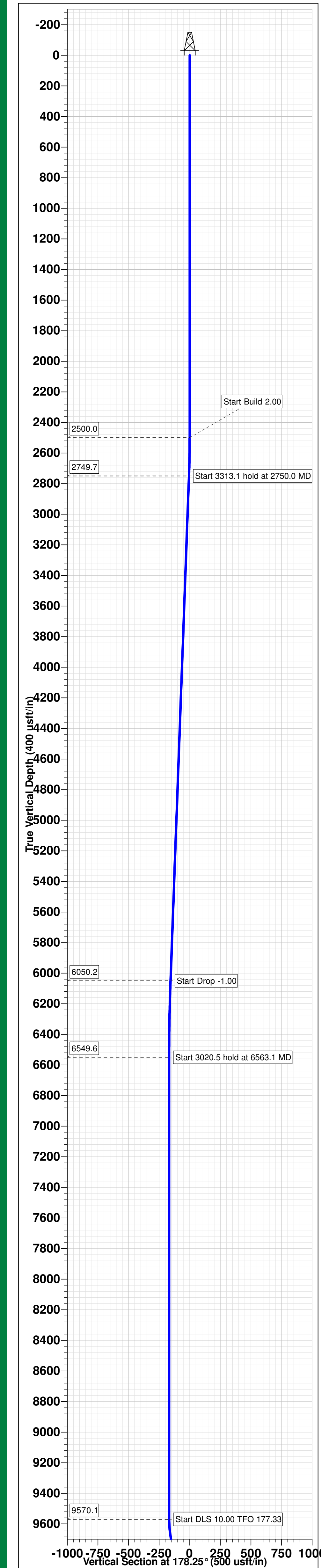
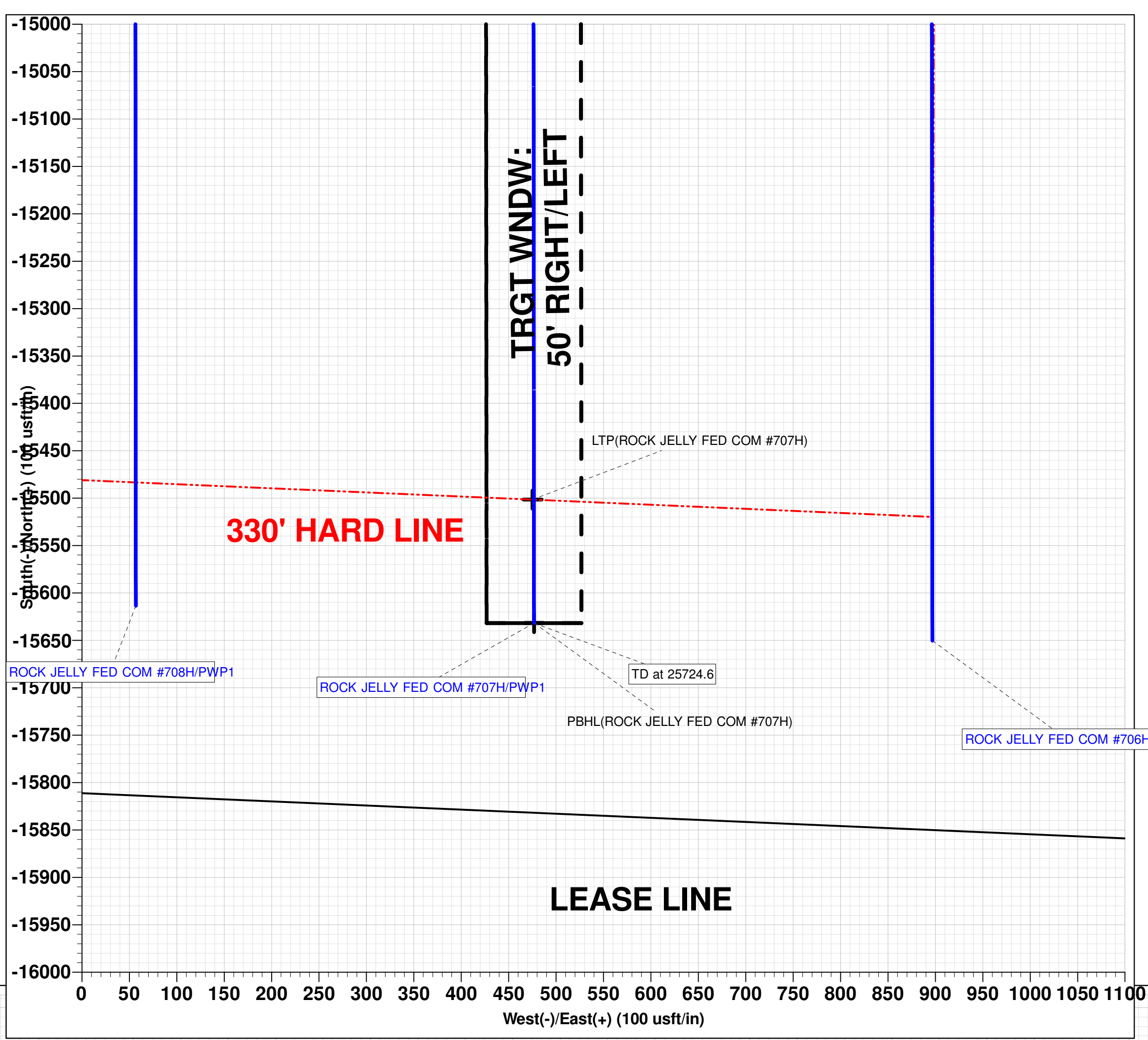
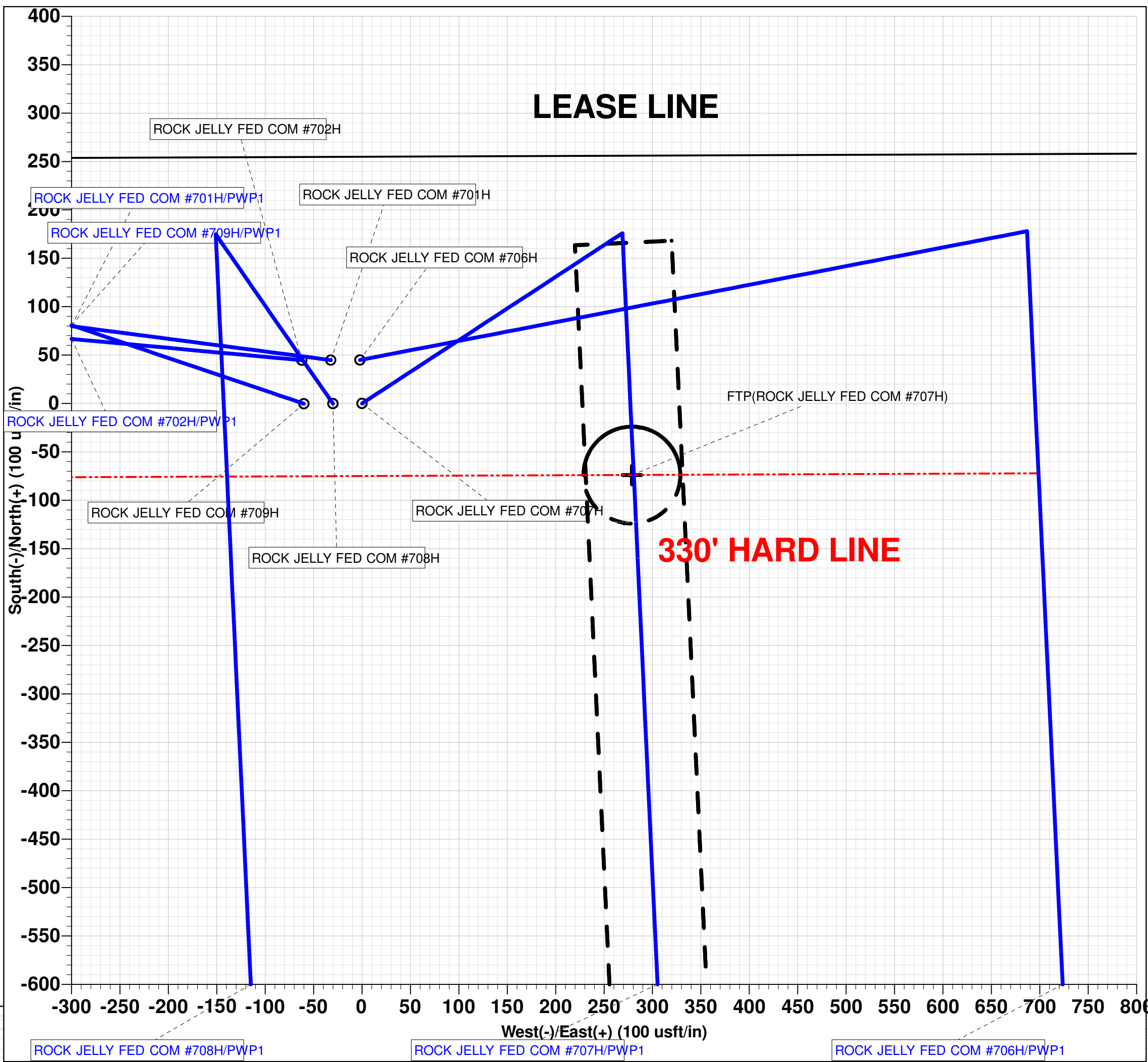
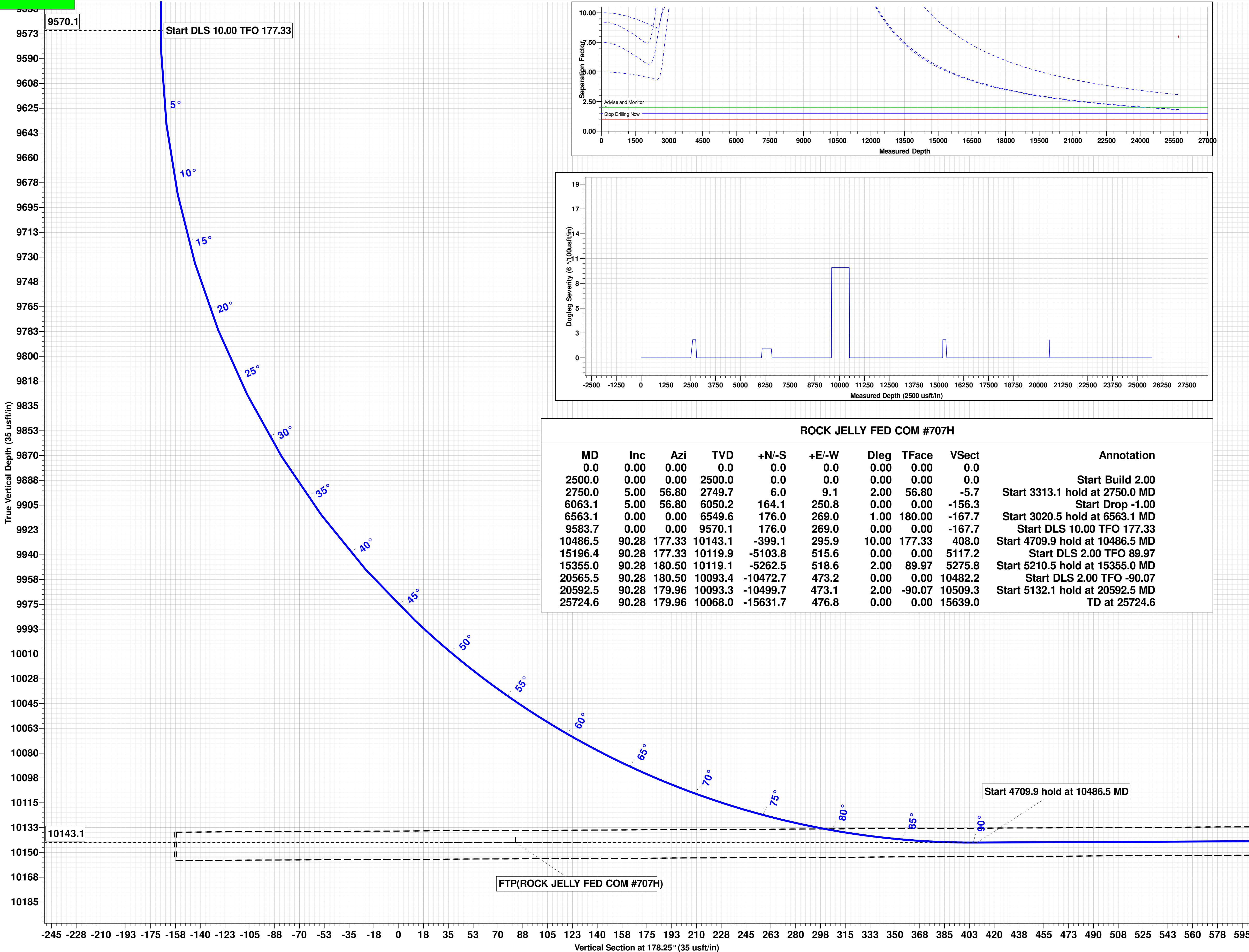
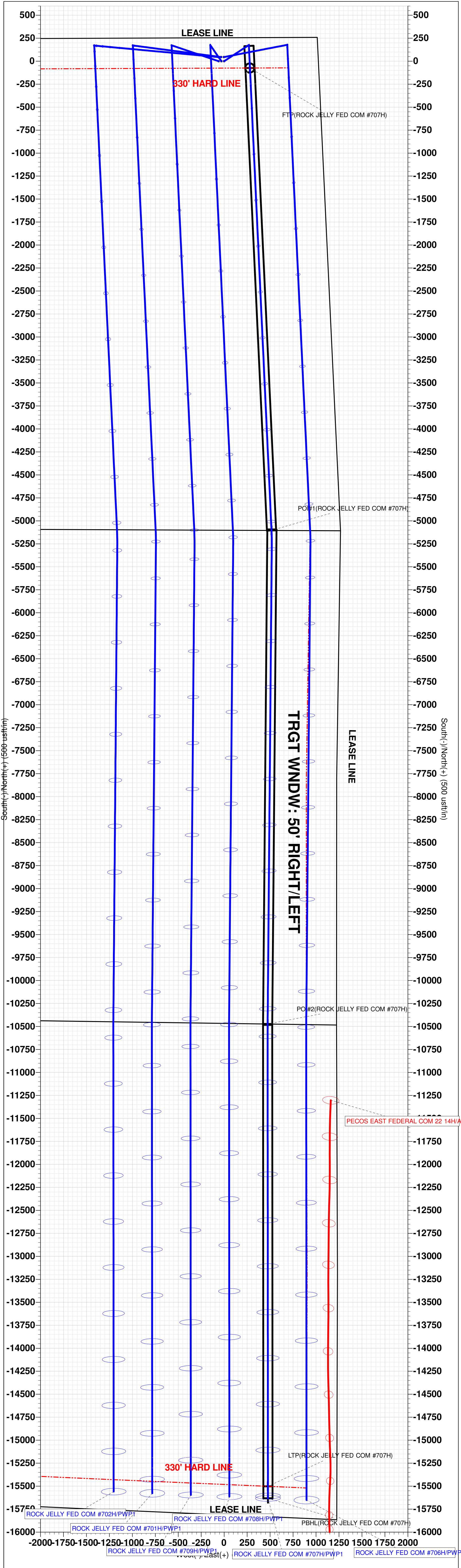
Project: ATLAS PROSPECT (NM-E)
Site: ROCK JELLY FEDERAL PROJECT (ATLAS 2629)
Well: ROCK JELLY FED COM #707H
Wellbore: OWB
Design: PWP1
GL: 2978.1
KB=25' @ 3003.1ustft (P84)

WELL DETAILS: ROCK JELLY FED COM #707H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	392346.70	613648.10	32° 4' 41.324 N	103° 57' 59.075 W

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP(ROCK JELLY FED COM #707H)	10068.0	-15501.5	475.2	376845.20	614123.30	32° 2' 7.898 N	103° 57' 54.167 W
PBHL(ROCK JELLY FED COM #707H)	10068.0	-15631.7	476.8	376715.00	614124.90	32° 2' 6.609 N	103° 57' 54.154 W
POI#2(ROCK JELLY FED COM #707H)	10093.4	-10472.7	473.2	381874.03	614121.30	32° 2' 57.666 N	103° 57' 53.991 W
POI#1(ROCK JELLY FED COM #707H)	10119.9	-5103.8	515.6	387242.86	614163.72	32° 3' 50.796 N	103° 57' 53.285 W
FTP(ROCK JELLY FED COM #707H)	10143.0	-73.9	278.8	392272.80	613926.90	32° 4' 40.583 N	103° 57' 55.838 W



ROCK JELLY FED COM #707H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.0	0.00	0.0	Start Build 2.00
2750.0	5.00	56.80	2749.7	6.0	9.1	2.00	56.80	-5.7	Start 3313.1 hold at 2750.0 MD
6063.1	5.00	56.80	6050.2	164.1	250.8	0.00	0.00	-156.3	Start Drop -1.00
6563.1	0.00	0.00	6549.6	176.0	269.0	1.00	180.00	-167.7	Start 3020.5 hold at 6563.1 MD
9583.7	0.00	0.00	9570.1	176.0	269.0	0.00	0.00	-167.7	Start DLS 10.00 TFO 177.33
10486.5	90.28	177.33	10143.1	-399.1	295.9	10.00	177.33	408.0	Start 4709.9 hold at 10486.5 MD
15196.4	90.28	177.33	10119.9	-5103.8	515.6	0.00	0.00	5117.2	Start DLS 2.00 TFO 89.97
15355.0	90.28	180.50	10119.1	-5262.5	518.6	2.00	89.97	5275.8	Start 5210.5 hold at 15355.0 MD
20565.5	90.28	180.50	10093.4	-10472.7	473.2	0.00	0.00	10482.2	Start DLS 2.00 TFO -90.07
20592.5	90.28	179.96	10093.3	-10499.7	473.1	2.00	-90.07	10509.3	Start 5132.1 hold at 20592.5 MD
25724.6	90.28	179.96	10068.0	-15631.7	476.8	0.00	0.00	15639.0	TD at 25724.6



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 707H
SURFACE HOLE FOOTAGE:	255'/N & 1025'/E
BOTTOM HOLE FOOTAGE:	200'/S & 750'/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.
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 121922

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 190749

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 190749
	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