

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM106909

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC

3a. Address 600 West Illinois Ave, Midland, TX 79701

3b. Phone No. (include area code)
(432) 683-74434. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 35/T26S/R28E/NMP

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

8. Well Name and No. KEG SHELL FEDERAL COM/702H

9. API Well No. 3001548212

10. Field and Pool or Exploratory Area
Purple Sage/Wolfcamp11. Country or Parish, State
EDDY/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

COG Operating requests a change to our approved APD for this well to reflect changes in BHL and dedicated acres.

Change BHL FROM 200' FNL & 1430' FEL 35-26S-28E TO: 200' FNL & 1410' FEL 23-26S-28E.

Change dedicated acres to 1547.18 ac.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
STAN WAGNER / Ph: (432) 253-9685

Title Regulatory Advisor

Signature

Date

06/05/2023

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

GAVIN MICKWEE / Ph: (575) 234-5972 / Approved

Title Land Law Examiner

Date

06/05/2023

Conditions of approval, if any, are attached. Approval of this notice 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.

Office CARLSBAD

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.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: LOT 3 / 360 FSL / 1344 FEL / TWSP: 26S / RANGE: 28E / SECTION: 35 / LAT: 32.001023 / LONG: -104.053677 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 1 FSL / 1344 FEL / TWSP: 26S / RANGE: 28E / SECTION: 23 / LAT: 32.020778 / LONG: -104.054288 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 1 FSL / 1344 FEL / TWSP: 26S / RANGE: 28E / SECTION: 26 / LAT: 32.006348 / LONG: -104.053677 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 3 / 330 FSL / 1344 FEL / TWSP: 26S / RANGE: 28E / SECTION: 35 / LAT: 32.0094 / LONG: -104.053677 (TVD: 0 feet, MD: 0 feet)

BHL: NWNE / 200 FNL / 1430 FEL / TWSP: 26S / RANGE: 28E / SECTION: 23 / LAT: 32.034766 / LONG: -104.053987 (TVD: 0 feet, MD: 0 feet)

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 30-015-48212	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 330693	Property Name KEG SHELL FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2990.3'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	35	26-S	28-E		360	SOUTH	1344	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
B	23	26-S	28-E		200	NORTH	1410	EAST	EDDY
Dedicated Acres 1547.18	Joint or Infill	Consolidation Code Com	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

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=376498.6 N
X=627918.9 E
LAT.=32.034767° N
LONG.=104.053923° W

POINT LEGEND	
1	Y=376724.5 N X=629332.8 E
2	Y=371459.1 N X=629248.0 E
3	Y=366250.2 N X=629365.5 E
4	Y=363869.9 N X=629371.9 E
5	Y=363857.5 N X=626664.9 E
6	Y=366066.4 N X=626603.9 E
7	Y=371365.3 N X=626543.8 E
8	Y=376674.4 N X=626590.4 E

NAD 83 NME
SURFACE LOCATION
Y=364223.6 N
X=628026.9 E
LAT.=32.001023° N
LONG.=104.053677° W

LTP
330' FNL & 1407' FEL
Y=376368.6 N
X=627919.4 E
LAT.=32.034409° N
LONG.=104.053922° W

PPP4
2734' FSL & 1361' FEL
Y=373964.1 N
X=627927.6 E
LAT.=32.027800° N
LONG.=104.053916° W

PPP3
1312' FEL
Y=371413.6 N
X=627936.3 E
LAT.=32.020788° N
LONG.=104.053909° W

PPP2
1411' FEL
Y=366156.3 N
X=627954.3 E
LAT.=32.006336° N
LONG.=104.053895° W

PPP1/FTP
330' FSL & 1410' FEL
Y=364193.3 N
X=627961.0 E
LAT.=32.000940° N
LONG.=104.053890° W
GRID AZ. TO FTP
245°18'13"

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 5/18/23
Signature Date
Stan Wagner
Printed Name

E-mail Address

SURVEYOR CERTIFICATION

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

OCTOBER 13, 2020
Date of Survey

Signature & Seal of Professional Surveyor

Chad Harcrow 3/16/23
Certificate No. CHAD HARCROW 17777
W.O. # 23-160 DRAWN BY: WN

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

KEG SHELL FED COM PROJECT

KEG SHELL FEDERAL COM #702H

300154821200

OWB

PWP2

Anticollision Report

17 May, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Reference	PWP2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	5/17/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	1,506.0	PWP2 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initalzd Cont. rev.5	
1,506.0	9,152.6	PWP2 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	
9,152.6	21,796.3	PWP2 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	

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						
KEG SHELL FED COM PROJECT						
KEG SHELL FEDERAL COM #701H - OWB - PWP2	1,500.0	1,499.9	30.0	20.7	3.226	CC, ES, SF
KEG SHELL FEDERAL COM #703H - OWB - PWP2	1,466.5	1,467.0	29.9	20.7	3.235	CC
KEG SHELL FEDERAL COM #703H - OWB - PWP2	1,500.0	1,500.0	29.9	20.6	3.216	ES
KEG SHELL FEDERAL COM #703H - OWB - PWP2	1,700.0	1,698.4	31.5	21.5	3.128	SF
KEG SHELL FEDERAL COM #902H - OWB - PWP1	4,141.1	4,151.4	467.0	450.6	28.458	CC
KEG SHELL FEDERAL COM #902H - OWB - PWP1	9,200.0	9,210.3	467.0	442.5	19.035	ES, SF
KEG SHELL FEDERAL COM #903H - OWB - PWP1	4,943.7	4,987.4	184.2	164.9	9.544	CC
KEG SHELL FEDERAL COM #903H - OWB - PWP1	5,000.0	5,043.2	184.3	164.7	9.376	ES
KEG SHELL FEDERAL COM #903H - OWB - PWP1	21,796.8	22,811.7	778.9	583.2	3.980	SF
KEG SHELL FEDERAL COM #904H - OWB - PWP1	5,010.6	5,057.7	47.6	28.8	2.532	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference 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						
KEG SHELL FED COM PROJECT						
KEG SHELL FEDERAL COM #701H - OWB - PWP2	21,796.8	21,993.9	859.2	669.6	4.532	
KEG SHELL FEDERAL COM #703H - OWB - PWP2	21,796.8	21,873.6	870.3	678.6	4.541	
KEG SHELL FEDERAL COM #902H - OWB - PWP1	21,796.8	22,909.8				Out of Range @TD
KEG SHELL FEDERAL COM #903H - OWB - PWP1	21,796.8	22,811.7	778.9	583.2	3.980	SF
KEG SHELL FEDERAL COM #904H - OWB - PWP1	21,796.8	23,084.6				Out of Range @TD

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #701H - OWB - PWP2													Offset Site Error:	3.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 2506-r.5 MWD+IFR1+MS, 9209-r.5 MWD+IFR1+MS							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		
0.0	0.0	0.0	0.1	3.0	3.0	89.81	0.1	30.0	30.0					
100.0	100.0	99.9	100.0	3.0	3.0	89.81	0.1	30.0	30.0	23.5	6.51	4.606		
200.0	200.0	199.9	200.0	3.2	3.2	89.81	0.1	30.0	30.0	23.2	6.75	4.442		
300.0	300.0	299.9	300.0	3.3	3.3	89.81	0.1	30.0	30.0	23.0	6.99	4.295		
400.0	400.0	399.9	400.0	3.4	3.4	89.81	0.1	30.0	30.0	22.8	7.21	4.162		
500.0	500.0	499.9	500.0	3.5	3.5	89.81	0.1	30.0	30.0	22.6	7.42	4.040		
600.0	600.0	599.9	600.0	3.7	3.7	89.81	0.1	30.0	30.0	22.4	7.63	3.929		
700.0	700.0	699.9	700.0	3.8	3.8	89.81	0.1	30.0	30.0	22.2	7.84	3.827		
800.0	800.0	799.9	800.0	3.9	3.9	89.81	0.1	30.0	30.0	22.0	8.04	3.733		
900.0	900.0	899.9	900.0	4.0	4.0	89.81	0.1	30.0	30.0	21.8	8.23	3.645		
1,000.0	1,000.0	999.9	1,000.0	4.2	4.2	89.81	0.1	30.0	30.0	21.6	8.42	3.564		
1,100.0	1,100.0	1,099.9	1,100.0	4.3	4.3	89.81	0.1	30.0	30.0	21.4	8.60	3.488		
1,200.0	1,200.0	1,199.9	1,200.0	4.4	4.4	89.81	0.1	30.0	30.0	21.2	8.78	3.416		
1,300.0	1,300.0	1,299.9	1,300.0	4.5	4.5	89.81	0.1	30.0	30.0	21.0	8.96	3.349		
1,400.0	1,400.0	1,399.9	1,400.0	4.6	4.6	89.81	0.1	30.0	30.0	20.9	9.13	3.286		
1,500.0	1,500.0	1,499.9	1,500.0	4.7	4.7	89.81	0.1	30.0	30.0	20.7	9.30	3.226	CC, ES, SF	
1,600.0	1,600.0	1,598.8	1,598.9	4.9	4.8	-141.20	-0.4	31.6	33.0	23.4	9.62	3.428		
1,700.0	1,699.8	1,697.2	1,697.1	5.1	4.9	-143.34	-1.9	36.5	42.0	32.0	10.03	4.187		
1,800.0	1,799.5	1,794.5	1,794.1	5.4	5.0	-145.36	-4.3	44.5	57.0	46.6	10.45	5.460		
1,900.0	1,898.9	1,890.5	1,889.4	5.6	5.2	-146.34	-7.7	55.4	76.6	65.8	10.80	7.094		
2,000.0	1,998.4	1,985.3	1,983.0	5.8	5.4	-146.16	-11.9	69.2	99.1	88.0	11.14	8.896		
2,100.0	2,097.8	2,078.6	2,074.8	6.1	5.5	-145.46	-16.9	85.7	124.6	113.1	11.49	10.847		
2,200.0	2,197.3	2,170.4	2,164.4	6.3	5.7	-144.55	-22.7	104.7	153.0	141.1	11.83	12.930		
2,300.0	2,296.7	2,264.1	2,255.3	6.5	5.8	-143.69	-29.3	126.2	183.4	171.3	12.10	15.159		
2,400.0	2,396.4	2,359.6	2,348.0	6.8	5.9	-142.89	-36.1	148.3	212.8	200.4	12.43	17.123		
2,500.0	2,496.1	2,455.5	2,441.0	7.1	6.0	-142.06	-42.8	170.5	240.9	228.2	12.76	18.883		

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #701H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2506-r.5 MWD+IFR1+MS, 9209-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,600.0	2,596.0	2,551.7	2,534.4	7.4	6.2	-141.20	-49.7	192.7	267.8	254.8	13.05	20.528	
2,700.0	2,695.9	2,648.2	2,628.0	7.6	6.3	-140.29	-56.5	215.1	293.5	280.1	13.38	21.926	
2,800.0	2,795.9	2,745.0	2,722.0	7.9	6.5	-139.34	-63.3	237.5	317.9	304.2	13.71	23.193	
2,900.0	2,895.9	2,842.0	2,816.1	7.9	6.7	91.71	-70.2	259.9	341.4	327.5	13.92	24.524	
3,000.0	2,995.9	2,939.0	2,910.2	8.0	6.9	92.71	-77.1	282.4	364.8	350.6	14.21	25.681	
3,100.0	3,095.9	3,036.1	3,004.4	8.1	7.1	93.59	-83.9	304.8	388.3	373.8	14.52	26.742	
3,200.0	3,195.9	3,133.1	3,098.5	8.2	7.4	94.37	-90.8	327.2	411.9	397.1	14.87	27.708	
3,300.0	3,295.9	3,230.1	3,192.7	8.3	7.7	95.06	-97.6	349.7	435.6	420.4	15.24	28.584	
3,400.0	3,395.9	3,327.1	3,286.8	8.4	8.0	95.69	-104.5	372.1	459.3	443.7	15.64	29.376	
3,500.0	3,495.9	3,424.2	3,381.0	8.4	8.3	96.25	-111.4	394.6	483.1	467.1	16.06	30.090	
3,600.0	3,595.9	3,521.2	3,475.1	8.5	8.6	96.76	-118.2	417.0	506.9	490.4	16.49	30.732	
3,700.0	3,695.9	3,618.2	3,569.3	8.6	9.0	97.22	-125.1	439.5	530.8	513.8	16.95	31.308	
3,800.0	3,795.9	3,715.3	3,663.4	8.7	9.3	97.65	-132.0	461.9	554.6	537.2	17.43	31.823	
3,900.0	3,895.9	3,812.3	3,757.6	8.8	9.7	98.04	-138.8	484.4	578.5	560.6	17.92	32.285	
4,000.0	3,995.9	3,909.3	3,851.7	8.9	10.1	98.39	-145.7	506.8	602.5	584.0	18.42	32.699	
4,100.0	4,095.9	4,006.4	3,945.9	8.9	10.5	98.72	-152.5	529.3	626.4	607.5	18.94	33.068	
4,200.0	4,195.9	4,103.4	4,040.0	9.0	10.9	99.03	-159.4	551.7	650.4	630.9	19.47	33.398	
4,300.0	4,295.9	4,200.4	4,134.1	9.1	11.3	99.32	-166.3	574.2	674.4	654.3	20.01	33.694	
4,400.0	4,395.9	4,297.4	4,228.3	9.2	11.7	99.58	-173.1	596.6	698.4	677.8	20.57	33.958	
4,500.0	4,495.9	4,394.5	4,322.4	9.3	12.1	99.83	-180.0	619.1	722.4	701.2	21.13	34.194	
4,600.0	4,595.9	4,498.3	4,423.3	9.3	12.5	100.07	-187.3	642.9	746.2	724.5	21.70	34.383	
4,700.0	4,695.9	4,610.5	4,532.6	9.4	13.0	100.30	-194.6	666.8	768.4	746.0	22.37	34.354	
4,800.0	4,795.9	4,723.7	4,643.4	9.5	13.4	100.50	-201.4	689.0	788.7	765.6	23.03	34.250	
4,900.0	4,895.9	4,837.8	4,755.5	9.6	13.9	100.68	-207.5	709.1	807.0	783.4	23.68	34.084	
5,000.0	4,995.9	4,952.6	4,868.8	9.7	14.4	100.82	-213.1	727.3	823.5	799.1	24.32	33.862	
5,100.0	5,095.9	5,068.2	4,983.2	9.8	14.9	100.95	-218.0	743.3	837.9	813.0	24.94	33.593	
5,200.0	5,195.9	5,184.5	5,098.5	9.8	15.3	101.05	-222.2	757.2	850.3	824.8	25.55	33.283	
5,300.0	5,295.9	5,301.3	5,214.7	9.9	15.8	101.14	-225.8	769.0	860.8	834.7	26.13	32.940	
5,400.0	5,395.9	5,418.5	5,331.5	10.0	16.2	101.20	-228.7	778.5	869.2	842.5	26.68	32.575	
5,500.0	5,495.9	5,536.2	5,448.9	10.1	16.6	101.25	-230.9	785.7	875.6	848.4	27.20	32.191	
5,600.0	5,595.9	5,654.0	5,566.6	10.2	17.0	101.29	-232.4	790.6	880.0	852.3	27.67	31.800	
5,700.0	5,695.9	5,772.1	5,684.6	10.3	17.3	101.31	-233.2	793.2	882.3	854.2	28.07	31.427	
5,800.0	5,795.9	5,883.3	5,795.9	10.3	17.4	101.31	-233.4	793.7	882.7	854.4	28.25	31.244	
5,900.0	5,895.9	5,983.3	5,895.9	10.4	17.5	101.31	-233.4	793.7	882.7	854.3	28.35	31.129	
6,000.0	5,995.9	6,083.3	5,995.9	10.5	17.5	101.31	-233.4	793.7	882.7	854.2	28.46	31.010	
6,100.0	6,095.9	6,183.3	6,095.9	10.6	17.5	101.31	-233.4	793.7	882.7	854.1	28.57	30.892	
6,200.0	6,195.9	6,283.3	6,195.9	10.7	17.6	101.31	-233.4	793.7	882.7	854.0	28.68	30.773	
6,300.0	6,295.9	6,383.3	6,295.9	10.7	17.6	101.31	-233.4	793.7	882.7	853.9	28.79	30.655	
6,400.0	6,395.9	6,483.3	6,395.9	10.8	17.7	101.31	-233.4	793.7	882.7	853.8	28.90	30.538	
6,500.0	6,495.9	6,583.3	6,495.9	10.9	17.7	101.31	-233.4	793.7	882.7	853.6	29.02	30.420	
6,600.0	6,595.9	6,683.3	6,595.9	11.0	17.7	101.31	-233.4	793.7	882.7	853.5	29.13	30.304	
6,700.0	6,695.9	6,783.3	6,695.9	11.1	17.8	101.31	-233.4	793.7	882.7	853.4	29.24	30.187	
6,800.0	6,795.9	6,883.3	6,795.9	11.2	17.8	101.31	-233.4	793.7	882.7	853.3	29.35	30.071	
6,900.0	6,895.9	6,983.3	6,895.9	11.2	17.9	101.31	-233.4	793.7	882.7	853.2	29.47	29.956	
7,000.0	6,995.9	7,083.3	6,995.9	11.3	17.9	101.31	-233.4	793.7	882.7	853.1	29.58	29.841	
7,100.0	7,095.9	7,183.3	7,095.9	11.4	17.9	101.31	-233.4	793.7	882.7	853.0	29.69	29.726	
7,200.0	7,195.9	7,283.3	7,195.9	11.5	18.0	101.31	-233.4	793.7	882.7	852.9	29.81	29.612	
7,300.0	7,295.9	7,383.3	7,295.9	11.6	18.0	101.31	-233.4	793.7	882.7	852.7	29.92	29.498	
7,400.0	7,395.9	7,483.3	7,395.9	11.7	18.1	101.31	-233.4	793.7	882.7	852.6	30.04	29.385	
7,500.0	7,495.9	7,583.3	7,495.9	11.7	18.1	101.31	-233.4	793.7	882.7	852.5	30.15	29.272	
7,600.0	7,595.9	7,683.3	7,595.9	11.8	18.2	101.31	-233.4	793.7	882.7	852.4	30.27	29.159	
7,700.0	7,695.9	7,783.3	7,695.9	11.9	18.2	101.31	-233.4	793.7	882.7	852.3	30.39	29.047	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #701H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2506-r.5 MWD+IFR1+MS, 9209-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Rule Assigned:	
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
7,800.0	7,795.9	7,883.3	7,795.9	12.0	18.2	101.31	-233.4	793.7	882.7	852.2	30.50	28.936	
7,900.0	7,895.9	7,983.3	7,895.9	12.1	18.3	101.31	-233.4	793.7	882.7	852.0	30.62	28.825	
8,000.0	7,995.9	8,083.3	7,995.9	12.1	18.3	101.31	-233.4	793.7	882.7	851.9	30.74	28.714	
8,100.0	8,095.9	8,183.3	8,095.9	12.2	18.4	101.31	-233.4	793.7	882.7	851.8	30.86	28.604	
8,200.0	8,195.9	8,283.3	8,195.9	12.3	18.4	101.31	-233.4	793.7	882.7	851.7	30.98	28.495	
8,300.0	8,295.9	8,383.3	8,295.9	12.4	18.5	101.31	-233.4	793.7	882.7	851.6	31.10	28.386	
8,400.0	8,395.9	8,483.3	8,395.9	12.5	18.5	101.31	-233.4	793.7	882.7	851.4	31.21	28.277	
8,500.0	8,495.9	8,583.3	8,495.9	12.6	18.6	101.31	-233.4	793.7	882.7	851.3	31.33	28.169	
8,600.0	8,595.9	8,683.3	8,595.9	12.6	18.6	101.31	-233.4	793.7	882.7	851.2	31.45	28.061	
8,700.0	8,695.9	8,783.3	8,695.9	12.7	18.6	101.31	-233.4	793.7	882.7	851.1	31.58	27.954	
8,800.0	8,795.9	8,883.3	8,795.9	12.8	18.7	101.31	-233.4	793.7	882.7	851.0	31.70	27.847	
8,900.0	8,895.9	8,983.3	8,895.9	12.9	18.7	101.31	-233.4	793.7	882.7	850.8	31.82	27.741	
9,000.0	8,995.9	9,083.3	8,995.9	13.0	18.8	101.31	-233.4	793.7	882.7	850.7	31.94	27.636	
9,100.0	9,095.9	9,183.3	9,095.9	13.0	18.8	101.31	-233.4	793.7	882.7	850.6	32.06	27.529	
9,200.0	9,195.9	9,284.5	9,235.9	13.1	18.9	100.66	-219.5	793.6	880.9	848.9	32.00	27.525	
9,300.0	9,294.9	9,467.3	9,367.5	13.1	18.9	98.80	-165.3	793.4	876.3	844.4	31.89	27.476	
9,400.0	9,389.1	9,595.1	9,467.0	13.2	18.9	96.60	-85.7	793.2	871.6	839.7	31.83	27.383	
9,500.0	9,474.3	9,709.3	9,535.3	13.3	19.0	94.27	5.5	792.8	867.7	835.9	31.83	27.265	
9,600.0	9,546.9	9,812.4	9,576.8	13.4	19.1	91.89	99.7	792.5	865.4	833.5	31.92	27.113	
9,683.7	9,595.6	9,892.1	9,594.5	13.5	19.1	89.91	177.3	792.2	864.8	832.7	32.09	26.951	
9,700.0	9,603.6	9,907.0	9,596.3	13.5	19.2	89.53	192.1	792.2	864.8	832.7	32.13	26.918	
9,800.0	9,642.1	9,998.9	9,599.6	13.6	19.3	87.29	283.8	791.9	865.8	833.3	32.44	26.686	
9,900.0	9,660.5	10,097.1	9,600.5	13.7	19.4	86.04	382.1	791.5	866.7	834.0	32.79	26.429	
10,000.0	9,662.6	10,197.1	9,601.4	13.8	19.6	85.95	482.0	791.2	866.8	833.6	33.17	26.135	
10,100.0	9,663.4	10,297.1	9,602.3	13.9	19.8	85.96	582.0	790.8	866.7	833.1	33.61	25.787	
10,200.0	9,664.2	10,397.1	9,603.2	14.2	20.1	85.96	682.0	790.5	866.6	832.5	34.12	25.403	
10,300.0	9,665.1	10,497.1	9,604.1	14.4	20.3	85.97	782.0	790.1	866.6	831.9	34.68	24.987	
10,400.0	9,665.9	10,597.1	9,605.1	14.7	20.6	85.97	882.0	789.8	866.5	831.2	35.30	24.546	
10,500.0	9,666.7	10,697.1	9,606.0	15.1	20.9	85.98	982.0	789.4	866.4	830.5	35.98	24.084	
10,600.0	9,667.5	10,797.1	9,606.9	15.5	21.3	85.99	1,082.0	789.1	866.4	829.7	36.70	23.607	
10,700.0	9,668.4	10,897.1	9,607.8	15.9	21.6	85.99	1,182.0	788.7	866.3	828.8	37.47	23.119	
10,800.0	9,669.2	10,997.1	9,608.8	16.4	22.0	86.00	1,282.0	788.4	866.3	828.0	38.29	22.625	
10,900.0	9,670.0	11,097.1	9,609.7	16.9	22.4	86.00	1,382.0	788.1	866.2	827.0	39.14	22.128	
11,000.0	9,670.9	11,197.1	9,610.6	17.4	22.8	86.01	1,482.0	787.7	866.1	826.1	40.04	21.631	
11,100.0	9,671.7	11,297.1	9,611.5	17.9	23.2	86.02	1,582.0	787.4	866.1	825.1	40.97	21.137	
11,200.0	9,672.5	11,397.1	9,612.4	18.4	23.6	86.02	1,682.0	787.0	866.0	824.1	41.94	20.649	
11,300.0	9,673.3	11,497.1	9,613.4	19.0	24.1	86.03	1,782.0	786.7	865.9	823.0	42.94	20.167	
11,400.0	9,674.2	11,597.1	9,614.3	19.6	24.6	86.04	1,882.0	786.3	865.9	821.9	43.96	19.695	
11,500.0	9,675.0	11,697.1	9,615.2	20.1	25.0	86.04	1,982.0	786.0	865.8	820.8	45.02	19.232	
11,600.0	9,675.8	11,797.1	9,616.1	20.7	25.5	86.05	2,082.0	785.6	865.7	819.6	46.10	18.780	
11,700.0	9,676.6	11,897.1	9,617.1	21.3	26.1	86.05	2,182.0	785.3	865.7	818.5	47.20	18.340	
11,800.0	9,677.5	11,997.1	9,618.0	22.0	26.6	86.06	2,282.0	784.9	865.6	817.3	48.33	17.912	
11,900.0	9,678.3	12,097.1	9,618.9	22.6	27.1	86.07	2,381.9	784.6	865.5	816.1	49.47	17.496	
12,000.0	9,679.1	12,197.1	9,619.8	23.2	27.7	86.07	2,481.9	784.2	865.5	814.8	50.64	17.092	
12,100.0	9,679.9	12,297.1	9,620.7	23.9	28.2	86.08	2,581.9	783.9	865.4	813.6	51.82	16.701	
12,200.0	9,680.8	12,397.1	9,621.7	24.5	28.8	86.08	2,681.9	783.5	865.4	812.3	53.02	16.322	
12,300.0	9,681.6	12,497.1	9,622.6	25.2	29.4	86.09	2,781.9	783.2	865.3	811.1	54.23	15.955	
12,400.0	9,682.4	12,597.1	9,623.5	25.8	29.9	86.10	2,881.9	782.8	865.2	809.8	55.46	15.600	
12,500.0	9,683.2	12,697.1	9,624.4	26.5	30.5	86.10	2,981.9	782.5	865.2	808.5	56.71	15.257	
12,600.0	9,684.1	12,797.1	9,625.4	27.2	31.1	86.11	3,081.9	782.1	865.1	807.1	57.96	14.926	
12,700.0	9,684.9	12,897.1	9,626.3	27.8	31.7	86.11	3,181.9	781.8	865.0	805.8	59.23	14.605	
12,800.0	9,685.7	12,997.1	9,627.2	28.5	32.4	86.12	3,281.9	781.5	865.0	804.5	60.51	14.296	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #701H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2506-r.5 MWD+IFR1+MS, 9209-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,900.0	9,686.6	13,097.1	9,628.1	29.2	33.0	86.13	3,381.9	781.1	864.9	803.1	61.79	13.997	
13,000.0	9,687.4	13,197.1	9,629.1	29.9	33.6	86.13	3,481.9	780.8	864.8	801.7	63.09	13.708	
13,100.0	9,688.2	13,297.1	9,630.0	30.6	34.2	86.14	3,581.9	780.4	864.8	800.4	64.40	13.428	
13,200.0	9,689.0	13,397.1	9,630.9	31.3	34.9	86.14	3,681.9	780.1	864.7	799.0	65.71	13.159	
13,300.0	9,689.9	13,497.1	9,631.8	32.0	35.5	86.15	3,781.9	779.7	864.6	797.6	67.04	12.898	
13,400.0	9,690.7	13,597.1	9,632.7	32.7	36.2	86.16	3,881.9	779.4	864.6	796.2	68.37	12.646	
13,500.0	9,691.5	13,697.1	9,633.7	33.4	36.8	86.16	3,981.9	779.0	864.5	794.8	69.71	12.402	
13,600.0	9,692.3	13,797.1	9,634.6	34.1	37.5	86.17	4,081.9	778.7	864.5	793.4	71.05	12.166	
13,700.0	9,693.2	13,897.1	9,635.5	34.8	38.1	86.17	4,181.9	778.3	864.4	792.0	72.41	11.938	
13,800.0	9,694.0	13,997.1	9,636.4	35.5	38.8	86.18	4,281.9	778.0	864.3	790.6	73.76	11.717	
13,900.0	9,694.8	14,097.1	9,637.4	36.2	39.5	86.19	4,381.8	777.6	864.3	789.1	75.13	11.504	
14,000.0	9,695.6	14,197.1	9,638.3	36.9	40.1	86.19	4,481.8	777.3	864.2	787.7	76.50	11.297	
14,100.0	9,696.5	14,297.1	9,639.2	37.6	40.8	86.20	4,581.8	776.9	864.1	786.3	77.87	11.097	
14,200.0	9,697.3	14,397.1	9,640.1	38.4	41.5	86.21	4,681.8	776.6	864.1	784.8	79.25	10.903	
14,300.0	9,698.1	14,497.1	9,641.0	39.1	42.2	86.21	4,781.8	776.2	864.0	783.4	80.63	10.715	
14,400.0	9,698.9	14,597.1	9,642.0	39.8	42.8	86.22	4,881.8	775.9	863.9	781.9	82.02	10.533	
14,500.0	9,699.8	14,697.1	9,642.9	40.5	43.5	86.22	4,981.8	775.5	863.9	780.5	83.41	10.357	
14,600.0	9,700.6	14,797.1	9,643.8	41.3	44.2	86.23	5,081.8	775.2	863.8	779.0	84.81	10.186	
14,700.0	9,701.4	14,897.1	9,644.7	42.0	44.9	86.24	5,181.8	774.9	863.7	777.5	86.21	10.019	
14,800.0	9,702.3	14,997.1	9,645.7	42.7	45.6	86.24	5,281.8	774.5	863.7	776.1	87.61	9.858	
14,900.0	9,703.1	15,097.1	9,646.6	43.4	46.3	86.25	5,381.8	774.2	863.6	774.6	89.02	9.702	
15,000.0	9,703.9	15,197.1	9,647.5	44.2	47.0	86.25	5,481.8	773.8	863.6	773.1	90.43	9.550	
15,100.0	9,704.7	15,297.1	9,648.4	44.9	47.7	86.26	5,581.8	773.5	863.5	771.7	91.84	9.402	
15,200.0	9,705.6	15,397.1	9,649.3	45.6	48.4	86.27	5,681.8	773.1	863.4	770.2	93.26	9.259	
15,300.0	9,706.4	15,497.1	9,650.3	46.4	49.1	86.27	5,781.8	772.8	863.4	768.7	94.67	9.119	
15,400.0	9,707.2	15,597.1	9,651.2	47.1	49.8	86.28	5,881.8	772.4	863.3	767.2	96.10	8.984	
15,500.0	9,708.0	15,697.1	9,652.1	47.8	50.5	86.28	5,981.8	772.1	863.2	765.7	97.52	8.852	
15,600.0	9,708.9	15,797.1	9,653.0	48.6	51.2	86.29	6,081.8	771.7	863.2	764.2	98.94	8.724	
15,700.0	9,709.7	15,897.1	9,654.0	49.3	51.9	86.30	6,181.8	771.4	863.1	762.7	100.37	8.599	
15,800.0	9,710.5	15,997.1	9,654.9	50.0	52.6	86.30	6,281.8	771.0	863.0	761.2	101.80	8.477	
15,900.0	9,711.3	16,097.1	9,655.8	50.8	53.4	86.31	6,381.7	770.7	863.0	759.7	103.24	8.359	
16,000.0	9,712.2	16,197.1	9,656.7	51.5	54.1	86.32	6,481.7	770.3	862.9	758.2	104.67	8.244	
16,100.0	9,713.0	16,297.1	9,657.6	52.3	54.8	86.32	6,581.7	770.0	862.9	756.7	106.11	8.132	
16,200.0	9,713.8	16,397.1	9,658.6	53.0	55.5	86.33	6,681.7	769.6	862.8	755.2	107.55	8.022	
16,300.0	9,714.6	16,497.1	9,659.5	53.7	56.2	86.33	6,781.7	769.3	862.7	753.7	108.99	7.916	
16,400.0	9,715.5	16,597.1	9,660.4	54.5	56.9	86.34	6,881.7	768.9	862.7	752.2	110.43	7.812	
16,500.0	9,716.3	16,697.1	9,661.3	55.2	57.7	86.35	6,981.7	768.6	862.6	750.7	111.88	7.710	
16,600.0	9,717.1	16,797.1	9,662.3	56.0	58.4	86.35	7,081.7	768.2	862.5	749.2	113.32	7.611	
16,700.0	9,718.0	16,897.1	9,663.2	56.7	59.1	86.36	7,181.7	767.9	862.5	747.7	114.77	7.515	
16,800.0	9,718.8	16,997.1	9,664.1	57.5	59.8	86.36	7,281.7	767.6	862.4	746.2	116.22	7.421	
16,900.0	9,719.6	17,097.1	9,665.0	58.2	60.6	86.37	7,381.7	767.2	862.3	744.7	117.67	7.329	
17,000.0	9,720.4	17,197.1	9,665.9	59.0	61.3	86.38	7,481.7	766.9	862.3	743.2	119.12	7.239	
17,100.0	9,721.3	17,297.1	9,666.9	59.7	62.0	86.38	7,581.7	766.5	862.2	741.6	120.57	7.151	
17,200.0	9,722.1	17,397.1	9,667.8	60.4	62.7	86.39	7,681.7	766.2	862.1	740.1	122.03	7.065	
17,300.0	9,722.9	17,497.1	9,668.7	61.2	63.5	86.39	7,781.7	765.8	862.1	738.6	123.48	6.981	
17,400.0	9,723.7	17,597.1	9,669.6	61.9	64.2	86.40	7,881.7	765.5	862.0	737.1	124.94	6.900	
17,500.0	9,724.6	17,697.1	9,670.6	62.7	64.9	86.41	7,981.7	765.1	862.0	735.6	126.40	6.819	
17,600.0	9,725.4	17,797.1	9,671.5	63.4	65.7	86.41	8,081.7	764.8	861.9	734.0	127.86	6.741	
17,700.0	9,726.2	17,897.1	9,672.4	64.2	66.4	86.42	8,181.7	764.4	861.8	732.5	129.32	6.665	
17,800.0	9,727.0	17,997.1	9,673.3	64.9	67.1	86.43	8,281.7	764.1	861.8	731.0	130.78	6.590	
17,900.0	9,727.9	18,097.1	9,674.2	65.7	67.9	86.43	8,381.7	763.7	861.7	729.5	132.24	6.516	
18,000.0	9,728.7	18,197.1	9,675.2	66.4	68.6	86.44	8,481.6	763.4	861.6	727.9	133.70	6.444	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #701H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2506-r.5 MWD+IFR1+MS, 9209-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,100.0	9,729.5	18,297.1	9,676.1	67.2	69.3	86.44	8,581.6	763.0	861.6	726.4	135.17	6.374	
18,200.0	9,730.4	18,397.1	9,677.0	67.9	70.1	86.45	8,681.6	762.7	861.5	724.9	136.63	6.305	
18,300.0	9,731.2	18,497.1	9,677.9	68.7	70.8	86.46	8,781.6	762.3	861.4	723.3	138.10	6.238	
18,400.0	9,732.0	18,597.1	9,678.9	69.4	71.5	86.46	8,881.6	762.0	861.4	721.8	139.56	6.172	
18,500.0	9,732.8	18,697.1	9,679.8	70.2	72.3	86.47	8,981.6	761.6	861.3	720.3	141.03	6.107	
18,600.0	9,733.7	18,797.1	9,680.7	70.9	73.0	86.47	9,081.6	761.3	861.3	718.8	142.50	6.044	
18,700.0	9,734.5	18,897.1	9,681.6	71.7	73.7	86.48	9,181.6	761.0	861.2	717.2	143.97	5.982	
18,800.0	9,735.3	18,997.1	9,682.5	72.4	74.5	86.49	9,281.6	760.6	861.1	715.7	145.44	5.921	
18,900.0	9,736.1	19,097.1	9,683.5	73.2	75.2	86.49	9,381.6	760.3	861.1	714.2	146.91	5.861	
19,000.0	9,737.0	19,197.1	9,684.4	73.9	76.0	86.50	9,481.6	759.9	861.0	712.6	148.38	5.803	
19,100.0	9,737.8	19,297.1	9,685.3	74.7	76.7	86.51	9,581.6	759.6	860.9	711.1	149.85	5.745	
19,200.0	9,738.6	19,397.1	9,686.2	75.4	77.4	86.51	9,681.6	759.2	860.9	709.5	151.33	5.689	
19,300.0	9,739.4	19,497.1	9,687.2	76.2	78.2	86.52	9,781.6	758.9	860.8	708.0	152.80	5.634	
19,400.0	9,740.3	19,597.1	9,688.1	76.9	78.9	86.52	9,881.6	758.5	860.7	706.5	154.27	5.579	
19,500.0	9,741.1	19,697.1	9,689.0	77.7	79.7	86.53	9,981.6	758.2	860.7	704.9	155.75	5.526	
19,600.0	9,741.9	19,797.1	9,689.9	78.4	80.4	86.54	10,081.6	757.8	860.6	703.4	157.22	5.474	
19,700.0	9,742.7	19,897.1	9,690.8	79.2	81.1	86.54	10,181.6	757.5	860.6	701.9	158.70	5.423	
19,800.0	9,743.6	19,997.1	9,691.8	80.0	81.9	86.55	10,281.6	757.1	860.5	700.3	160.18	5.372	
19,900.0	9,744.4	20,097.1	9,692.7	80.7	82.6	86.55	10,381.6	756.8	860.4	698.8	161.65	5.323	
20,000.0	9,745.2	20,197.1	9,693.6	81.5	83.4	86.56	10,481.5	756.4	860.4	697.2	163.13	5.274	
20,100.0	9,746.1	20,297.1	9,694.5	82.2	84.1	86.57	10,581.5	756.1	860.3	695.7	164.61	5.226	
20,200.0	9,746.9	20,397.1	9,695.5	83.0	84.9	86.57	10,681.5	755.7	860.2	694.2	166.09	5.179	
20,300.0	9,747.7	20,497.1	9,696.4	83.7	85.6	86.58	10,781.5	755.4	860.2	692.6	167.57	5.133	
20,400.0	9,748.5	20,597.1	9,697.3	84.5	86.4	86.59	10,881.5	755.0	860.1	691.1	169.04	5.088	
20,500.0	9,749.4	20,697.1	9,698.2	85.2	87.1	86.59	10,981.5	754.7	860.0	689.5	170.52	5.044	
20,600.0	9,750.2	20,797.1	9,699.1	86.0	87.8	86.60	11,081.5	754.3	860.0	688.0	172.00	5.000	
20,700.0	9,751.0	20,897.1	9,700.1	86.7	88.6	86.60	11,181.5	754.0	859.9	686.4	173.49	4.957	
20,800.0	9,751.8	20,997.1	9,701.0	87.5	89.3	86.61	11,281.5	753.7	859.9	684.9	174.97	4.914	
20,900.0	9,752.7	21,097.1	9,701.9	88.2	90.1	86.62	11,381.5	753.3	859.8	683.3	176.45	4.873	
21,000.0	9,753.5	21,197.1	9,702.8	89.0	90.8	86.62	11,481.5	753.0	859.7	681.8	177.93	4.832	
21,100.0	9,754.3	21,297.1	9,703.8	89.8	91.6	86.63	11,581.5	752.6	859.7	680.3	179.41	4.792	
21,200.0	9,755.1	21,397.1	9,704.7	90.5	92.3	86.63	11,681.5	752.3	859.6	678.7	180.90	4.752	
21,300.0	9,756.0	21,497.1	9,705.6	91.3	93.1	86.64	11,781.5	751.9	859.5	677.2	182.38	4.713	
21,400.0	9,756.8	21,597.1	9,706.5	92.0	93.8	86.65	11,881.5	751.6	859.5	675.6	183.86	4.675	
21,500.0	9,757.6	21,697.1	9,707.4	92.8	94.6	86.65	11,981.5	751.2	859.4	674.1	185.35	4.637	
21,600.0	9,758.4	21,797.1	9,708.4	93.5	95.3	86.66	12,081.5	750.9	859.3	672.5	186.83	4.600	
21,700.0	9,759.3	21,897.1	9,709.3	94.3	96.1	86.67	12,181.5	750.5	859.3	671.0	188.31	4.563	
21,796.8	9,760.1	21,993.9	9,710.2	94.9	96.8	86.67	12,278.2	750.2	859.2	669.6	189.59	4.532	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #703H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1506-r.5 MWD+IFR1+MS, 9181-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.5	0.0	3.0	3.0	-90.19	-0.1	-29.9	29.9				
100.0	100.0	100.5	100.0	3.0	3.0	-90.19	-0.1	-29.9	29.9	23.4	6.51	4.590	
200.0	200.0	200.5	200.0	3.2	3.2	-90.19	-0.1	-29.9	29.9	23.1	6.75	4.427	
300.0	300.0	300.5	300.0	3.3	3.3	-90.19	-0.1	-29.9	29.9	22.9	6.99	4.280	
400.0	400.0	400.5	400.0	3.4	3.4	-90.19	-0.1	-29.9	29.9	22.7	7.21	4.147	
500.0	500.0	500.5	500.0	3.5	3.5	-90.19	-0.1	-29.9	29.9	22.5	7.43	4.027	
600.0	600.0	600.5	600.0	3.7	3.7	-90.19	-0.1	-29.9	29.9	22.3	7.64	3.916	
700.0	700.0	700.5	700.0	3.8	3.8	-90.19	-0.1	-29.9	29.9	22.1	7.84	3.814	
800.0	800.0	800.5	800.0	3.9	3.9	-90.19	-0.1	-29.9	29.9	21.9	8.04	3.720	
900.0	900.0	900.5	900.0	4.0	4.0	-90.19	-0.1	-29.9	29.9	21.7	8.23	3.633	
1,000.0	1,000.0	1,000.5	1,000.0	4.2	4.2	-90.19	-0.1	-29.9	29.9	21.5	8.42	3.552	
1,100.0	1,100.0	1,100.5	1,100.0	4.3	4.3	-90.19	-0.1	-29.9	29.9	21.3	8.60	3.476	
1,200.0	1,200.0	1,200.5	1,200.0	4.4	4.4	-90.19	-0.1	-29.9	29.9	21.1	8.78	3.405	
1,300.0	1,300.0	1,300.5	1,300.0	4.5	4.5	-90.19	-0.1	-29.9	29.9	20.9	8.96	3.338	
1,400.0	1,400.0	1,400.5	1,400.0	4.6	4.6	-90.19	-0.1	-29.9	29.9	20.8	9.13	3.275	
1,466.5	1,466.5	1,467.0	1,466.5	4.7	4.7	-90.19	-0.1	-29.9	29.9	20.7	9.24	3.235 CC	
1,500.0	1,500.0	1,500.0	1,499.5	4.7	4.7	-90.19	-0.1	-29.9	29.9	20.6	9.30	3.216 ES	
1,600.0	1,600.0	1,599.5	1,598.9	4.9	4.8	41.34	-0.4	-31.6	30.3	20.7	9.62	3.147	
1,700.0	1,699.8	1,698.4	1,697.7	5.1	5.0	45.70	-1.3	-36.7	31.5	21.5	10.09	3.128 SF	
1,800.0	1,799.5	1,797.2	1,796.2	5.4	5.2	52.17	-2.8	-45.1	34.0	23.5	10.53	3.231	
1,900.0	1,898.9	1,895.9	1,894.2	5.6	5.5	57.54	-4.8	-56.8	39.0	28.0	10.92	3.567	
2,000.0	1,998.4	1,994.6	1,991.6	5.8	5.8	59.53	-7.5	-71.8	47.1	35.8	11.25	4.184	
2,100.0	2,097.8	2,094.1	2,089.8	6.1	6.0	60.37	-10.3	-88.0	56.2	44.5	11.66	4.815	
2,200.0	2,197.3	2,193.7	2,188.0	6.3	6.3	60.97	-13.2	-104.1	65.3	53.2	12.09	5.397	
2,300.0	2,296.7	2,293.3	2,286.3	6.5	6.6	61.30	-16.0	-120.3	74.5	62.0	12.47	5.973	
2,400.0	2,396.4	2,392.8	2,384.4	6.8	6.9	60.68	-18.9	-136.5	84.5	71.5	12.96	6.518	
2,500.0	2,496.1	2,492.2	2,482.4	7.1	7.3	59.31	-21.7	-152.7	95.4	81.9	13.49	7.067	
2,600.0	2,596.0	2,591.4	2,580.3	7.4	7.6	57.44	-24.6	-168.8	107.2	93.1	14.06	7.623	
2,700.0	2,695.9	2,690.5	2,678.0	7.6	8.0	55.29	-27.4	-184.9	120.1	105.4	14.67	8.190	
2,800.0	2,795.9	2,789.3	2,775.5	7.9	8.3	52.97	-30.3	-201.0	134.2	118.9	15.29	8.777	
2,900.0	2,895.9	2,888.0	2,872.8	7.9	8.7	-79.38	-33.1	-217.0	149.5	133.6	15.83	9.442	
3,000.0	2,995.9	2,986.6	2,970.1	8.0	9.1	-81.40	-35.9	-233.0	165.0	148.6	16.40	10.062	
3,100.0	3,095.9	3,085.2	3,067.3	8.1	9.5	-83.06	-38.7	-249.0	180.8	163.8	16.97	10.654	
3,200.0	3,195.9	3,183.9	3,164.6	8.2	9.8	-84.46	-41.6	-265.1	196.6	179.1	17.53	11.215	
3,300.0	3,295.9	3,282.5	3,261.9	8.3	10.2	-85.65	-44.4	-281.1	212.6	194.5	18.10	11.748	
3,400.0	3,395.9	3,381.1	3,359.2	8.4	10.6	-86.68	-47.2	-297.1	228.6	210.0	18.66	12.252	
3,500.0	3,495.9	3,479.7	3,456.4	8.4	11.0	-87.57	-50.0	-313.2	244.7	225.5	19.23	12.728	
3,600.0	3,595.9	3,578.4	3,553.7	8.5	11.4	-88.35	-52.9	-329.2	260.9	241.1	19.80	13.179	
3,700.0	3,695.9	3,677.0	3,651.0	8.6	11.8	-89.04	-55.7	-345.2	277.1	256.7	20.37	13.605	
3,800.0	3,795.9	3,775.6	3,748.3	8.7	12.2	-89.65	-58.5	-361.3	293.3	272.4	20.94	14.008	
3,900.0	3,895.9	3,874.3	3,845.5	8.8	12.7	-90.20	-61.4	-377.3	309.6	288.1	21.51	14.390	
4,000.0	3,995.9	3,972.9	3,942.8	8.9	13.1	-90.69	-64.2	-393.3	325.8	303.8	22.09	14.751	
4,100.0	4,095.9	4,071.5	4,040.1	8.9	13.5	-91.14	-67.0	-409.4	342.2	319.5	22.67	15.093	
4,200.0	4,195.9	4,170.1	4,137.4	9.0	13.9	-91.55	-69.8	-425.4	358.5	335.2	23.25	15.417	
4,300.0	4,295.9	4,268.8	4,234.6	9.1	14.3	-91.92	-72.7	-441.4	374.8	351.0	23.84	15.725	
4,400.0	4,395.9	4,367.4	4,331.9	9.2	14.7	-92.26	-75.5	-457.5	391.2	366.7	24.42	16.017	
4,500.0	4,495.9	4,466.0	4,429.2	9.3	15.2	-92.57	-78.3	-473.5	407.5	382.5	25.01	16.295	
4,600.0	4,595.9	4,564.7	4,526.5	9.3	15.6	-92.86	-81.1	-489.5	423.9	398.3	25.60	16.558	
4,700.0	4,695.9	4,663.3	4,623.7	9.4	16.0	-93.12	-84.0	-505.5	440.3	414.1	26.19	16.809	
4,800.0	4,795.9	4,761.9	4,721.0	9.5	16.4	-93.37	-86.8	-521.6	456.7	429.9	26.79	17.049	
4,900.0	4,895.9	4,860.5	4,818.3	9.6	16.9	-93.60	-89.6	-537.6	473.1	445.7	27.38	17.276	
5,000.0	4,995.9	4,959.2	4,915.6	9.7	17.3	-93.82	-92.4	-553.6	489.5	461.5	27.98	17.494	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #703H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1506-r.5 MWD+IFR1+MS, 9181-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		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	
5,100.0	5,095.9	5,057.8	5,012.9	9.8	17.7	-94.02	-95.3	-569.7	505.9	477.3	28.58	17.701	
5,200.0	5,195.9	5,156.4	5,110.1	9.8	18.2	-94.21	-98.1	-585.7	522.3	493.1	29.18	17.899	
5,300.0	5,295.9	5,255.1	5,207.4	9.9	18.6	-94.39	-100.9	-601.7	538.7	509.0	29.78	18.089	
5,400.0	5,395.9	5,353.7	5,304.7	10.0	19.0	-94.55	-103.8	-617.8	555.2	524.8	30.39	18.270	
5,500.0	5,495.9	5,452.3	5,402.0	10.1	19.4	-94.71	-106.6	-633.8	571.6	540.6	30.99	18.444	
5,600.0	5,595.9	5,550.9	5,499.2	10.2	19.9	-94.86	-109.4	-649.8	588.1	556.5	31.60	18.610	
5,700.0	5,695.9	5,649.6	5,596.5	10.3	20.3	-95.00	-112.2	-665.9	604.5	572.3	32.21	18.769	
5,800.0	5,795.9	5,748.2	5,693.8	10.3	20.7	-95.13	-115.1	-681.9	620.9	588.1	32.82	18.922	
5,900.0	5,895.9	5,846.8	5,791.1	10.4	21.2	-95.26	-117.9	-697.9	637.4	604.0	33.42	19.069	
6,000.0	5,995.9	5,945.5	5,888.3	10.5	21.6	-95.38	-120.7	-714.0	653.8	619.8	34.04	19.210	
6,100.0	6,095.9	6,044.1	5,985.6	10.6	22.0	-95.49	-123.5	-730.0	670.3	635.6	34.65	19.346	
6,200.0	6,195.9	6,142.7	6,082.9	10.7	22.5	-95.60	-126.4	-746.0	686.7	651.5	35.26	19.476	
6,300.0	6,295.9	6,241.3	6,180.2	10.7	22.9	-95.70	-129.2	-762.0	703.2	667.3	35.87	19.602	
6,400.0	6,395.9	6,340.0	6,277.4	10.8	23.4	-95.80	-132.0	-778.1	719.7	683.2	36.49	19.723	
6,500.0	6,495.9	6,438.6	6,374.7	10.9	23.8	-95.89	-134.9	-794.1	736.1	699.0	37.10	19.839	
6,600.0	6,595.9	6,537.2	6,472.0	11.0	24.2	-95.98	-137.7	-810.1	752.6	714.9	37.72	19.952	
6,700.0	6,695.9	6,635.9	6,569.3	11.1	24.7	-96.07	-140.5	-826.2	769.1	730.7	38.34	20.060	
6,800.0	6,795.9	6,734.5	6,666.5	11.2	25.1	-96.15	-143.3	-842.2	785.5	746.6	38.96	20.165	
6,900.0	6,895.9	6,833.8	6,764.5	11.2	25.5	-96.23	-146.2	-858.3	802.0	762.4	39.57	20.268	
7,000.0	6,995.9	6,948.9	6,878.2	11.3	26.0	-96.31	-149.3	-875.8	817.4	777.1	40.26	20.303	
7,100.0	7,095.9	7,064.6	6,992.8	11.4	26.5	-96.38	-152.0	-891.1	830.8	789.9	40.93	20.298	
7,200.0	7,195.9	7,180.9	7,108.3	11.5	27.0	-96.44	-154.3	-904.2	842.2	800.6	41.57	20.261	
7,300.0	7,295.9	7,297.6	7,224.6	11.6	27.5	-96.49	-156.2	-915.0	851.6	809.4	42.17	20.195	
7,400.0	7,395.9	7,414.8	7,341.5	11.7	27.9	-96.52	-157.7	-923.5	858.9	816.2	42.72	20.104	
7,500.0	7,495.9	7,532.3	7,458.8	11.7	28.3	-96.55	-158.8	-929.7	864.3	821.0	43.23	19.994	
7,600.0	7,595.9	7,650.0	7,576.5	11.8	28.7	-96.56	-159.4	-933.5	867.5	823.9	43.66	19.871	
7,700.0	7,695.9	7,767.8	7,694.3	11.9	28.9	-96.57	-159.7	-934.9	868.7	824.8	43.91	19.784	
7,800.0	7,795.9	7,869.5	7,795.9	12.0	28.9	-96.57	-159.7	-934.9	868.7	824.8	43.99	19.749	
7,900.0	7,895.9	7,969.5	7,895.9	12.1	28.9	-96.57	-159.7	-934.9	868.7	824.7	44.06	19.716	
8,000.0	7,995.9	8,069.5	7,995.9	12.1	29.0	-96.57	-159.7	-934.9	868.7	824.6	44.14	19.682	
8,100.0	8,095.9	8,169.5	8,095.9	12.2	29.0	-96.57	-159.7	-934.9	868.7	824.5	44.21	19.649	
8,200.0	8,195.9	8,269.5	8,195.9	12.3	29.0	-96.57	-159.7	-934.9	868.7	824.5	44.29	19.616	
8,300.0	8,295.9	8,369.5	8,295.9	12.4	29.0	-96.57	-159.7	-934.9	868.7	824.4	44.36	19.583	
8,400.0	8,395.9	8,469.5	8,395.9	12.5	29.1	-96.57	-159.7	-934.9	868.7	824.3	44.44	19.549	
8,500.0	8,495.9	8,569.5	8,495.9	12.6	29.1	-96.57	-159.7	-934.9	868.7	824.2	44.52	19.516	
8,600.0	8,595.9	8,669.5	8,595.9	12.6	29.1	-96.57	-159.7	-934.9	868.7	824.2	44.59	19.482	
8,700.0	8,695.9	8,769.5	8,695.9	12.7	29.1	-96.57	-159.7	-934.9	868.7	824.1	44.67	19.448	
8,800.0	8,795.9	8,869.5	8,795.9	12.8	29.1	-96.57	-159.7	-934.9	868.7	824.0	44.75	19.414	
8,900.0	8,895.9	8,969.5	8,895.9	12.9	29.2	-96.57	-159.7	-934.9	868.7	823.9	44.83	19.380	
9,000.0	8,995.9	9,069.5	8,995.9	13.0	29.2	-96.57	-159.7	-934.9	868.7	823.8	44.90	19.346	
9,100.0	9,095.9	9,169.5	9,095.9	13.0	29.2	-96.57	-159.7	-934.9	868.7	823.8	44.98	19.315	
9,200.0	9,195.9	9,290.0	9,215.5	13.1	29.2	-95.64	-147.4	-934.9	867.7	822.8	44.88	19.334	
9,300.0	9,294.9	9,406.1	9,324.3	13.1	29.2	-94.19	-107.9	-935.1	865.8	821.0	44.75	19.346	
9,400.0	9,389.1	9,515.1	9,415.0	13.2	29.2	-92.60	-47.9	-935.2	864.3	819.6	44.68	19.344	
9,500.0	9,474.3	9,617.7	9,485.9	13.3	29.3	-90.95	26.0	-935.5	863.5	818.8	44.68	19.326	
9,555.6	9,516.4	9,672.2	9,516.7	13.3	29.3	-90.03	71.0	-935.6	863.4	818.6	44.72	19.306	
9,600.0	9,546.9	9,714.7	9,537.1	13.4	29.3	-89.30	108.3	-935.7	863.4	818.7	44.77	19.287	
9,700.0	9,603.6	9,807.2	9,569.4	13.5	29.4	-87.72	194.8	-936.0	864.1	819.2	44.94	19.226	
9,800.0	9,642.1	9,895.9	9,584.1	13.6	29.4	-86.24	282.1	-936.3	865.4	820.1	45.20	19.143	
9,900.0	9,660.5	9,990.2	9,585.9	13.7	29.5	-85.08	376.4	-936.5	866.6	821.2	45.48	19.057	
10,000.0	9,662.6	10,090.2	9,586.6	13.8	29.6	-84.97	476.4	-936.8	866.8	821.0	45.73	18.954	
10,100.0	9,663.4	10,190.2	9,587.3	13.9	29.8	-84.96	576.4	-937.2	866.8	820.8	46.04	18.829	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #703H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1506-r.5 MWD+IFR1+MS, 9181-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.0	9,664.2	10,290.2	9,588.0	14.2	29.9	-84.95	676.4	-937.5	866.8	820.4	46.39	18.685	
10,300.0	9,665.1	10,390.2	9,588.7	14.4	30.1	-84.94	776.3	-937.8	866.9	820.1	46.79	18.526	
10,400.0	9,665.9	10,490.2	9,589.4	14.7	30.3	-84.93	876.3	-938.1	866.9	819.6	47.24	18.352	
10,500.0	9,666.7	10,590.2	9,590.0	15.1	30.5	-84.93	976.3	-938.4	866.9	819.2	47.73	18.164	
10,600.0	9,667.5	10,690.2	9,590.7	15.5	30.7	-84.92	1,076.3	-938.7	866.9	818.7	48.26	17.964	
10,700.0	9,668.4	10,790.2	9,591.4	15.9	31.0	-84.91	1,176.3	-939.0	867.0	818.1	48.83	17.754	
10,800.0	9,669.2	10,890.2	9,592.1	16.4	31.2	-84.90	1,276.3	-939.3	867.0	817.6	49.44	17.535	
10,900.0	9,670.0	10,990.2	9,592.8	16.9	31.5	-84.89	1,376.3	-939.6	867.0	816.9	50.10	17.307	
11,000.0	9,670.9	11,090.2	9,593.5	17.4	31.8	-84.88	1,476.3	-939.9	867.1	816.3	50.78	17.074	
11,100.0	9,671.7	11,190.2	9,594.2	17.9	32.1	-84.87	1,576.3	-940.2	867.1	815.6	51.51	16.834	
11,200.0	9,672.5	11,290.2	9,594.9	18.4	32.4	-84.87	1,676.3	-940.5	867.1	814.8	52.26	16.591	
11,300.0	9,673.3	11,390.2	9,595.6	19.0	32.7	-84.86	1,776.3	-940.8	867.1	814.1	53.05	16.345	
11,400.0	9,674.2	11,490.2	9,596.3	19.6	33.1	-84.85	1,876.3	-941.1	867.2	813.3	53.87	16.097	
11,500.0	9,675.0	11,590.2	9,597.0	20.1	33.4	-84.84	1,976.3	-941.4	867.2	812.5	54.72	15.848	
11,600.0	9,675.8	11,690.2	9,597.7	20.7	33.8	-84.83	2,076.3	-941.7	867.2	811.6	55.60	15.598	
11,700.0	9,676.6	11,790.2	9,598.4	21.3	34.2	-84.82	2,176.3	-942.1	867.2	810.7	56.50	15.349	
11,800.0	9,677.5	11,890.2	9,599.1	22.0	34.6	-84.81	2,276.3	-942.4	867.3	809.8	57.43	15.101	
11,900.0	9,678.3	11,990.2	9,599.8	22.6	35.0	-84.81	2,376.3	-942.7	867.3	808.9	58.39	14.855	
12,000.0	9,679.1	12,090.2	9,600.5	23.2	35.4	-84.80	2,476.3	-943.0	867.3	808.0	59.36	14.611	
12,100.0	9,679.9	12,190.2	9,601.2	23.9	35.9	-84.79	2,576.3	-943.3	867.4	807.0	60.36	14.370	
12,200.0	9,680.8	12,290.2	9,601.9	24.5	36.3	-84.78	2,676.3	-943.6	867.4	806.0	61.38	14.131	
12,300.0	9,681.6	12,390.2	9,602.5	25.2	36.8	-84.77	2,776.3	-943.9	867.4	805.0	62.42	13.896	
12,400.0	9,682.4	12,490.2	9,603.2	25.8	37.2	-84.76	2,876.3	-944.2	867.4	804.0	63.48	13.665	
12,500.0	9,683.2	12,590.2	9,603.9	26.5	37.7	-84.75	2,976.3	-944.5	867.5	802.9	64.55	13.438	
12,600.0	9,684.1	12,690.2	9,604.6	27.2	38.2	-84.75	3,076.3	-944.8	867.5	801.9	65.65	13.214	
12,700.0	9,684.9	12,790.2	9,605.3	27.8	38.7	-84.74	3,176.3	-945.1	867.5	800.8	66.76	12.995	
12,800.0	9,685.7	12,890.2	9,606.0	28.5	39.2	-84.73	3,276.3	-945.4	867.6	799.7	67.88	12.780	
12,900.0	9,686.6	12,990.2	9,606.7	29.2	39.7	-84.72	3,376.3	-945.7	867.6	798.6	69.02	12.570	
13,000.0	9,687.4	13,090.2	9,607.4	29.9	40.2	-84.71	3,476.3	-946.0	867.6	797.4	70.18	12.364	
13,100.0	9,688.2	13,190.2	9,608.1	30.6	40.7	-84.70	3,576.3	-946.3	867.6	796.3	71.34	12.162	
13,200.0	9,689.0	13,290.2	9,608.8	31.3	41.2	-84.69	3,676.3	-946.6	867.7	795.2	72.52	11.964	
13,300.0	9,689.9	13,390.2	9,609.5	32.0	41.8	-84.69	3,776.3	-946.9	867.7	794.0	73.71	11.771	
13,400.0	9,690.7	13,490.2	9,610.2	32.7	42.3	-84.68	3,876.3	-947.3	867.7	792.8	74.92	11.583	
13,500.0	9,691.5	13,590.2	9,610.9	33.4	42.9	-84.67	3,976.3	-947.6	867.8	791.6	76.13	11.399	
13,600.0	9,692.3	13,690.2	9,611.6	34.1	43.4	-84.66	4,076.3	-947.9	867.8	790.4	77.35	11.219	
13,700.0	9,693.2	13,790.2	9,612.3	34.8	44.0	-84.65	4,176.2	-948.2	867.8	789.2	78.59	11.043	
13,800.0	9,694.0	13,890.2	9,613.0	35.5	44.6	-84.64	4,276.2	-948.5	867.8	788.0	79.83	10.871	
13,900.0	9,694.8	13,990.2	9,613.7	36.2	45.1	-84.63	4,376.2	-948.8	867.9	786.8	81.08	10.704	
14,000.0	9,695.6	14,090.2	9,614.4	36.9	45.7	-84.63	4,476.2	-949.1	867.9	785.6	82.34	10.540	
14,100.0	9,696.5	14,190.2	9,615.0	37.6	46.3	-84.62	4,576.2	-949.4	867.9	784.3	83.61	10.381	
14,200.0	9,697.3	14,290.2	9,615.7	38.4	46.9	-84.61	4,676.2	-949.7	868.0	783.1	84.89	10.225	
14,300.0	9,698.1	14,390.2	9,616.4	39.1	47.5	-84.60	4,776.2	-950.0	868.0	781.8	86.17	10.073	
14,400.0	9,698.9	14,490.2	9,617.1	39.8	48.1	-84.59	4,876.2	-950.3	868.0	780.6	87.46	9.924	
14,500.0	9,699.8	14,590.2	9,617.8	40.5	48.7	-84.58	4,976.2	-950.6	868.0	779.3	88.76	9.780	
14,600.0	9,700.6	14,690.2	9,618.5	41.3	49.3	-84.57	5,076.2	-950.9	868.1	778.0	90.07	9.638	
14,700.0	9,701.4	14,790.2	9,619.2	42.0	49.9	-84.57	5,176.2	-951.2	868.1	776.7	91.38	9.500	
14,800.0	9,702.3	14,890.2	9,619.9	42.7	50.5	-84.56	5,276.2	-951.5	868.1	775.4	92.69	9.366	
14,900.0	9,703.1	14,990.2	9,620.6	43.4	51.2	-84.55	5,376.2	-951.8	868.2	774.1	94.02	9.234	
15,000.0	9,703.9	15,090.2	9,621.3	44.2	51.8	-84.54	5,476.2	-952.1	868.2	772.8	95.34	9.106	
15,100.0	9,704.7	15,190.2	9,622.0	44.9	52.4	-84.53	5,576.2	-952.5	868.2	771.5	96.68	8.981	
15,200.0	9,705.6	15,290.2	9,622.7	45.6	53.0	-84.52	5,676.2	-952.8	868.2	770.2	98.02	8.858	
15,300.0	9,706.4	15,390.2	9,623.4	46.4	53.7	-84.51	5,776.2	-953.1	868.3	768.9	99.36	8.739	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #703H - OWB - PWP2												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1506-r.5 MWD+IFR1+MS, 9181-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		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	
15,400.0	9,707.2	15,490.2	9,624.1	47.1	54.3	-84.51	5,876.2	-953.4	868.3	767.6	100.71	8.622	
15,500.0	9,708.0	15,590.2	9,624.8	47.8	55.0	-84.50	5,976.2	-953.7	868.3	766.3	102.06	8.508	
15,600.0	9,708.9	15,690.2	9,625.5	48.6	55.6	-84.49	6,076.2	-954.0	868.4	765.0	103.41	8.397	
15,700.0	9,709.7	15,790.2	9,626.2	49.3	56.3	-84.48	6,176.2	-954.3	868.4	763.6	104.77	8.288	
15,800.0	9,710.5	15,890.2	9,626.9	50.0	56.9	-84.47	6,276.2	-954.6	868.4	762.3	106.14	8.182	
15,900.0	9,711.3	15,990.2	9,627.5	50.8	57.6	-84.46	6,376.2	-954.9	868.5	760.9	107.51	8.078	
16,000.0	9,712.2	16,090.2	9,628.2	51.5	58.2	-84.45	6,476.2	-955.2	868.5	759.6	108.88	7.977	
16,100.0	9,713.0	16,190.2	9,628.9	52.3	58.9	-84.45	6,576.2	-955.5	868.5	758.3	110.25	7.877	
16,200.0	9,713.8	16,290.2	9,629.6	53.0	59.5	-84.44	6,676.2	-955.8	868.5	756.9	111.63	7.780	
16,300.0	9,714.6	16,390.2	9,630.3	53.7	60.2	-84.43	6,776.2	-956.1	868.6	755.6	113.02	7.685	
16,400.0	9,715.5	16,490.2	9,631.0	54.5	60.9	-84.42	6,876.2	-956.4	868.6	754.2	114.40	7.593	
16,500.0	9,716.3	16,590.2	9,631.7	55.2	61.5	-84.41	6,976.2	-956.7	868.6	752.8	115.79	7.502	
16,600.0	9,717.1	16,690.2	9,632.4	56.0	62.2	-84.40	7,076.2	-957.0	868.7	751.5	117.18	7.413	
16,700.0	9,718.0	16,790.2	9,633.1	56.7	62.9	-84.39	7,176.2	-957.3	868.7	750.1	118.57	7.326	
16,800.0	9,718.8	16,890.2	9,633.8	57.5	63.6	-84.39	7,276.2	-957.7	868.7	748.7	119.97	7.241	
16,900.0	9,719.6	16,990.2	9,634.5	58.2	64.2	-84.38	7,376.2	-958.0	868.7	747.4	121.37	7.158	
17,000.0	9,720.4	17,090.2	9,635.2	59.0	64.9	-84.37	7,476.1	-958.3	868.8	746.0	122.77	7.076	
17,100.0	9,721.3	17,190.2	9,635.9	59.7	65.6	-84.36	7,576.1	-958.6	868.8	744.6	124.18	6.997	
17,200.0	9,722.1	17,290.2	9,636.6	60.4	66.3	-84.35	7,676.1	-958.9	868.8	743.2	125.58	6.918	
17,300.0	9,722.9	17,390.2	9,637.3	61.2	67.0	-84.34	7,776.1	-959.2	868.9	741.9	126.99	6.842	
17,400.0	9,723.7	17,490.2	9,638.0	61.9	67.6	-84.33	7,876.1	-959.5	868.9	740.5	128.40	6.767	
17,500.0	9,724.6	17,590.2	9,638.7	62.7	68.3	-84.33	7,976.1	-959.8	868.9	739.1	129.82	6.693	
17,600.0	9,725.4	17,690.2	9,639.4	63.4	69.0	-84.32	8,076.1	-960.1	868.9	737.7	131.23	6.621	
17,700.0	9,726.2	17,790.2	9,640.0	64.2	69.7	-84.31	8,176.1	-960.4	869.0	736.3	132.65	6.551	
17,800.0	9,727.0	17,890.2	9,640.7	64.9	70.4	-84.30	8,276.1	-960.7	869.0	734.9	134.07	6.482	
17,900.0	9,727.9	17,990.2	9,641.4	65.7	71.1	-84.29	8,376.1	-961.0	869.0	733.5	135.49	6.414	
18,000.0	9,728.7	18,090.2	9,642.1	66.4	71.8	-84.28	8,476.1	-961.3	869.1	732.2	136.91	6.348	
18,100.0	9,729.5	18,190.2	9,642.8	67.2	72.5	-84.27	8,576.1	-961.6	869.1	730.8	138.34	6.282	
18,200.0	9,730.4	18,290.2	9,643.5	67.9	73.2	-84.27	8,676.1	-961.9	869.1	729.4	139.76	6.219	
18,300.0	9,731.2	18,390.2	9,644.2	68.7	73.9	-84.26	8,776.1	-962.2	869.2	728.0	141.19	6.156	
18,400.0	9,732.0	18,490.2	9,644.9	69.4	74.6	-84.25	8,876.1	-962.5	869.2	726.6	142.62	6.094	
18,500.0	9,732.8	18,590.2	9,645.6	70.2	75.3	-84.24	8,976.1	-962.9	869.2	725.2	144.05	6.034	
18,600.0	9,733.7	18,690.2	9,646.3	70.9	76.0	-84.23	9,076.1	-963.2	869.2	723.8	145.49	5.975	
18,700.0	9,734.5	18,790.2	9,647.0	71.7	76.7	-84.22	9,176.1	-963.5	869.3	722.4	146.92	5.917	
18,800.0	9,735.3	18,890.2	9,647.7	72.4	77.4	-84.21	9,276.1	-963.8	869.3	720.9	148.36	5.860	
18,900.0	9,736.1	18,990.2	9,648.4	73.2	78.1	-84.21	9,376.1	-964.1	869.3	719.5	149.79	5.804	
19,000.0	9,737.0	19,090.2	9,649.1	73.9	78.8	-84.20	9,476.1	-964.4	869.4	718.1	151.23	5.749	
19,100.0	9,737.8	19,190.2	9,649.8	74.7	79.5	-84.19	9,576.1	-964.7	869.4	716.7	152.67	5.695	
19,200.0	9,738.6	19,290.2	9,650.5	75.4	80.2	-84.18	9,676.1	-965.0	869.4	715.3	154.11	5.641	
19,300.0	9,739.4	19,390.2	9,651.2	76.2	80.9	-84.17	9,776.1	-965.3	869.5	713.9	155.56	5.589	
19,400.0	9,740.3	19,490.2	9,651.9	76.9	81.7	-84.16	9,876.1	-965.6	869.5	712.5	157.00	5.538	
19,500.0	9,741.1	19,590.2	9,652.5	77.7	82.4	-84.16	9,976.1	-965.9	869.5	711.1	158.44	5.488	
19,600.0	9,741.9	19,690.2	9,653.2	78.4	83.1	-84.15	10,076.1	-966.2	869.5	709.7	159.89	5.438	
19,700.0	9,742.7	19,790.2	9,653.9	79.2	83.8	-84.14	10,176.1	-966.5	869.6	708.2	161.34	5.390	
19,800.0	9,743.6	19,890.2	9,654.6	80.0	84.5	-84.13	10,276.1	-966.8	869.6	706.8	162.78	5.342	
19,900.0	9,744.4	19,990.2	9,655.3	80.7	85.2	-84.12	10,376.1	-967.1	869.6	705.4	164.23	5.295	
20,000.0	9,745.2	20,090.2	9,656.0	81.5	85.9	-84.11	10,476.1	-967.4	869.7	704.0	165.68	5.249	
20,100.0	9,746.1	20,190.2	9,656.7	82.2	86.7	-84.10	10,576.1	-967.7	869.7	702.6	167.13	5.204	
20,200.0	9,746.9	20,290.2	9,657.4	83.0	87.4	-84.10	10,676.1	-968.1	869.7	701.1	168.59	5.159	
20,300.0	9,747.7	20,390.2	9,658.1	83.7	88.1	-84.09	10,776.1	-968.4	869.7	699.7	170.04	5.115	
20,400.0	9,748.5	20,490.2	9,658.8	84.5	88.8	-84.08	10,876.0	-968.7	869.8	698.3	171.49	5.072	
20,500.0	9,749.4	20,590.2	9,659.5	85.2	89.5	-84.07	10,976.0	-969.0	869.8	696.9	172.95	5.029	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #703H - OWB - PWP2													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1506-r.5 MWD+IFR1+MS, 9181-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,600.0	9,750.2	20,690.2	9,660.2	86.0	90.3	-84.06	11,076.0	-969.3	869.8	695.4	174.40	4.988	
20,700.0	9,751.0	20,790.2	9,660.9	86.7	91.0	-84.05	11,176.0	-969.6	869.9	694.0	175.86	4.946	
20,800.0	9,751.8	20,890.2	9,661.6	87.5	91.7	-84.04	11,276.0	-969.9	869.9	692.6	177.32	4.906	
20,900.0	9,752.7	20,990.2	9,662.3	88.2	92.4	-84.04	11,376.0	-970.2	869.9	691.2	178.78	4.866	
21,000.0	9,753.5	21,090.2	9,663.0	89.0	93.2	-84.03	11,476.0	-970.5	870.0	689.7	180.23	4.827	
21,100.0	9,754.3	21,190.2	9,663.7	89.8	93.9	-84.02	11,576.0	-970.8	870.0	688.3	181.69	4.788	
21,200.0	9,755.1	21,290.2	9,664.4	90.5	94.6	-84.01	11,676.0	-971.1	870.0	686.9	183.15	4.750	
21,300.0	9,756.0	21,390.2	9,665.0	91.3	95.3	-84.00	11,776.0	-971.4	870.0	685.4	184.62	4.713	
21,400.0	9,756.8	21,490.2	9,665.7	92.0	96.1	-83.99	11,876.0	-971.7	870.1	684.0	186.08	4.676	
21,500.0	9,757.6	21,590.2	9,666.4	92.8	96.8	-83.98	11,976.0	-972.0	870.1	682.6	187.54	4.640	
21,600.0	9,758.4	21,690.2	9,667.1	93.5	97.5	-83.98	12,076.0	-972.3	870.1	681.1	189.00	4.604	
21,700.0	9,759.3	21,790.2	9,667.8	94.3	98.2	-83.97	12,176.0	-972.6	870.2	679.7	190.46	4.569	
21,704.4	9,759.3	21,794.6	9,667.9	94.3	98.3	-83.97	12,180.4	-972.7	870.2	679.6	190.52	4.567	
21,796.8	9,760.1	21,873.6	9,668.4	94.9	98.9	-83.96	12,259.5	-972.9	870.3	678.6	191.67	4.541	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #902H - OWB - PWP1													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10091-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	3.6	3.0	3.0	89.73	2.3	489.0	489.0				
100.0	100.0	96.4	100.0	3.0	3.0	89.73	2.3	489.0	489.0	482.5	6.51	75.107	
200.0	200.0	196.4	200.0	3.2	3.2	89.73	2.3	489.0	489.0	482.3	6.75	72.462	
300.0	300.0	296.4	300.0	3.3	3.3	89.73	2.3	489.0	489.0	482.0	6.98	70.050	
400.0	400.0	396.4	400.0	3.4	3.4	89.73	2.3	489.0	489.0	481.8	7.20	67.874	
500.0	500.0	496.4	500.0	3.5	3.5	89.73	2.3	489.0	489.0	481.6	7.42	65.895	
600.0	600.0	596.4	600.0	3.7	3.7	89.73	2.3	489.0	489.0	481.4	7.63	64.083	
700.0	700.0	696.4	700.0	3.8	3.8	89.73	2.3	489.0	489.0	481.2	7.83	62.416	
800.0	800.0	796.4	800.0	3.9	3.9	89.73	2.3	489.0	489.0	481.0	8.03	60.875	
900.0	900.0	896.4	900.0	4.0	4.0	89.73	2.3	489.0	489.0	480.8	8.23	59.446	
1,000.0	1,000.0	996.4	1,000.0	4.2	4.1	89.73	2.3	489.0	489.0	480.6	8.41	58.114	
1,100.0	1,100.0	1,096.4	1,100.0	4.3	4.3	89.73	2.3	489.0	489.0	480.4	8.60	56.871	
1,200.0	1,200.0	1,196.4	1,200.0	4.4	4.4	89.73	2.3	489.0	489.0	480.2	8.78	55.705	
1,300.0	1,300.0	1,296.4	1,300.0	4.5	4.5	89.73	2.3	489.0	489.0	480.1	8.95	54.609	
1,400.0	1,400.0	1,396.4	1,400.0	4.6	4.6	89.73	2.3	489.0	489.0	479.9	9.13	53.577	
1,500.0	1,500.0	1,496.4	1,500.0	4.7	4.7	89.73	2.3	489.0	489.0	479.7	9.30	52.602	
1,600.0	1,600.0	1,604.9	1,608.5	4.9	4.9	-140.21	0.6	488.1	489.5	480.0	9.56	51.212	
1,700.0	1,699.8	1,713.6	1,717.0	5.1	5.2	-139.99	-4.7	485.3	490.9	480.9	9.98	49.173	
1,800.0	1,799.5	1,822.3	1,825.2	5.4	5.5	-139.63	-13.7	480.5	493.2	482.8	10.41	47.362	
1,900.0	1,898.9	1,928.4	1,930.4	5.6	5.8	-139.05	-25.8	474.1	495.2	484.4	10.79	45.904	
2,000.0	1,998.4	2,028.2	2,029.2	5.8	6.1	-138.41	-38.1	467.5	496.7	485.6	11.15	44.543	
2,100.0	2,097.8	2,128.0	2,128.1	6.1	6.3	-137.77	-50.3	461.0	498.4	486.9	11.53	43.234	
2,200.0	2,197.3	2,227.9	2,227.0	6.3	6.6	-137.14	-62.6	454.5	500.1	488.2	11.91	41.983	
2,300.0	2,296.7	2,327.7	2,325.8	6.5	6.9	-136.50	-74.9	448.0	501.7	489.4	12.23	41.022	
2,400.0	2,396.4	2,427.5	2,424.6	6.8	7.2	-135.74	-87.1	441.4	502.2	489.6	12.61	39.811	
2,500.0	2,496.1	2,527.1	2,523.3	7.1	7.5	-134.83	-99.4	434.9	501.6	488.6	12.99	38.619	
2,600.0	2,596.0	2,626.7	2,621.9	7.4	7.8	-133.77	-111.6	428.4	499.9	486.6	13.34	37.463	
2,700.0	2,695.9	2,726.1	2,720.4	7.6	8.2	-132.55	-123.8	421.9	497.2	483.5	13.67	36.358	
2,800.0	2,795.9	2,825.3	2,818.6	7.9	8.5	-131.17	-136.0	415.5	493.6	479.6	13.97	35.322	
2,900.0	2,895.9	2,924.4	2,916.7	7.9	8.9	100.36	-148.2	409.0	489.2	475.1	14.12	34.643	
3,000.0	2,995.9	3,023.4	3,014.8	8.0	9.2	101.91	-160.4	402.5	485.2	470.9	14.31	33.904	
3,100.0	3,095.9	3,122.4	3,112.9	8.1	9.6	103.49	-172.5	396.0	481.5	467.0	14.49	33.218	
3,200.0	3,195.9	3,221.5	3,210.9	8.2	10.0	105.09	-184.7	389.6	478.1	463.5	14.68	32.581	
3,300.0	3,295.9	3,320.5	3,309.0	8.3	10.3	106.71	-196.9	383.1	475.2	460.4	14.84	32.014	
3,400.0	3,395.9	3,418.6	3,406.2	8.4	10.7	108.29	-208.6	376.9	472.7	457.7	14.98	31.564	
3,500.0	3,495.9	3,516.6	3,503.5	8.4	11.0	109.69	-218.9	371.4	470.8	455.7	15.16	31.055	
3,600.0	3,595.9	3,615.0	3,601.4	8.5	11.4	110.90	-227.7	366.7	469.5	454.1	15.35	30.579	
3,700.0	3,695.9	3,713.7	3,699.7	8.6	11.8	111.92	-235.1	362.7	468.5	452.9	15.55	30.131	
3,800.0	3,795.9	3,812.7	3,798.4	8.7	12.1	112.73	-241.1	359.6	467.8	452.1	15.75	29.705	
3,900.0	3,895.9	3,911.8	3,897.5	8.8	12.4	113.34	-245.5	357.3	467.4	451.4	15.95	29.300	
4,000.0	3,995.9	4,011.2	3,996.8	8.9	12.7	113.75	-248.4	355.7	467.1	451.0	16.16	28.912	
4,100.0	4,095.9	4,110.6	4,096.1	8.9	13.0	113.94	-249.8	355.0	467.0	450.6	16.35	28.554	
4,141.1	4,137.0	4,151.4	4,137.0	9.0	13.0	113.96	-249.9	354.9	467.0	450.6	16.41	28.458 CC	
4,200.0	4,195.9	4,210.3	4,195.9	9.0	13.0	113.96	-249.9	354.9	467.0	450.5	16.48	28.339	
4,300.0	4,295.9	4,310.3	4,295.9	9.1	13.1	113.96	-249.9	354.9	467.0	450.3	16.64	28.063	
4,400.0	4,395.9	4,410.3	4,395.9	9.2	13.1	113.96	-249.9	354.9	467.0	450.2	16.80	27.792	
4,500.0	4,495.9	4,510.3	4,495.9	9.3	13.1	113.96	-249.9	354.9	467.0	450.0	16.97	27.526	
4,600.0	4,595.9	4,610.3	4,595.9	9.3	13.2	113.96	-249.9	354.9	467.0	449.9	17.13	27.266	
4,700.0	4,695.9	4,710.3	4,695.9	9.4	13.2	113.96	-249.9	354.9	467.0	449.7	17.29	27.010	
4,800.0	4,795.9	4,810.3	4,795.9	9.5	13.3	113.96	-249.9	354.9	467.0	449.5	17.45	26.759	
4,900.0	4,895.9	4,910.3	4,895.9	9.6	13.3	113.96	-249.9	354.9	467.0	449.4	17.61	26.513	
5,000.0	4,995.9	5,010.3	4,995.9	9.7	13.4	113.96	-249.9	354.9	467.0	449.2	17.78	26.272	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #902H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10091-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
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
5,100.0	5,095.9	5,110.3	5,095.9	9.8	13.4	113.96	-249.9	354.9	467.0	449.0	17.94	26.034	
5,200.0	5,195.9	5,210.3	5,195.9	9.8	13.5	113.96	-249.9	354.9	467.0	448.9	18.10	25.801	
5,300.0	5,295.9	5,310.3	5,295.9	9.9	13.5	113.96	-249.9	354.9	467.0	448.7	18.26	25.573	
5,400.0	5,395.9	5,410.3	5,395.9	10.0	13.6	113.96	-249.9	354.9	467.0	448.6	18.42	25.348	
5,500.0	5,495.9	5,510.3	5,495.9	10.1	13.6	113.96	-249.9	354.9	467.0	448.4	18.59	25.127	
5,600.0	5,595.9	5,610.3	5,595.9	10.2	13.7	113.96	-249.9	354.9	467.0	448.2	18.75	24.910	
5,700.0	5,695.9	5,710.3	5,695.9	10.3	13.7	113.96	-249.9	354.9	467.0	448.1	18.91	24.697	
5,800.0	5,795.9	5,810.3	5,795.9	10.3	13.8	113.96	-249.9	354.9	467.0	447.9	19.07	24.487	
5,900.0	5,895.9	5,910.3	5,895.9	10.4	13.8	113.96	-249.9	354.9	467.0	447.8	19.23	24.281	
6,000.0	5,995.9	6,010.3	5,995.9	10.5	13.9	113.96	-249.9	354.9	467.0	447.6	19.39	24.078	
6,100.0	6,095.9	6,110.3	6,095.9	10.6	13.9	113.96	-249.9	354.9	467.0	447.4	19.56	23.879	
6,200.0	6,195.9	6,210.3	6,195.9	10.7	14.0	113.96	-249.9	354.9	467.0	447.3	19.72	23.683	
6,300.0	6,295.9	6,310.3	6,295.9	10.7	14.0	113.96	-249.9	354.9	467.0	447.1	19.88	23.490	
6,400.0	6,395.9	6,410.3	6,395.9	10.8	14.1	113.96	-249.9	354.9	467.0	446.9	20.04	23.301	
6,500.0	6,495.9	6,510.3	6,495.9	10.9	14.1	113.96	-249.9	354.9	467.0	446.8	20.20	23.114	
6,600.0	6,595.9	6,610.3	6,595.9	11.0	14.2	113.96	-249.9	354.9	467.0	446.6	20.37	22.931	
6,700.0	6,695.9	6,710.3	6,695.9	11.1	14.2	113.96	-249.9	354.9	467.0	446.5	20.53	22.750	
6,800.0	6,795.9	6,810.3	6,795.9	11.2	14.3	113.96	-249.9	354.9	467.0	446.3	20.69	22.572	
6,900.0	6,895.9	6,910.3	6,895.9	11.2	14.3	113.96	-249.9	354.9	467.0	446.1	20.85	22.397	
7,000.0	6,995.9	7,010.3	6,995.9	11.3	14.4	113.96	-249.9	354.9	467.0	446.0	21.01	22.225	
7,100.0	7,095.9	7,110.3	7,095.9	11.4	14.4	113.96	-249.9	354.9	467.0	445.8	21.17	22.055	
7,200.0	7,195.9	7,210.3	7,195.9	11.5	14.5	113.96	-249.9	354.9	467.0	445.6	21.34	21.888	
7,300.0	7,295.9	7,310.3	7,295.9	11.6	14.6	113.96	-249.9	354.9	467.0	445.5	21.50	21.723	
7,400.0	7,395.9	7,410.3	7,395.9	11.7	14.6	113.96	-249.9	354.9	467.0	445.3	21.66	21.561	
7,500.0	7,495.9	7,510.3	7,495.9	11.7	14.7	113.96	-249.9	354.9	467.0	445.2	21.82	21.401	
7,600.0	7,595.9	7,610.3	7,595.9	11.8	14.7	113.96	-249.9	354.9	467.0	445.0	21.98	21.244	
7,700.0	7,695.9	7,710.3	7,695.9	11.9	14.8	113.96	-249.9	354.9	467.0	444.8	22.14	21.089	
7,800.0	7,795.9	7,810.3	7,795.9	12.0	14.8	113.96	-249.9	354.9	467.0	444.7	22.31	20.936	
7,900.0	7,895.9	7,910.3	7,895.9	12.1	14.9	113.96	-249.9	354.9	467.0	444.5	22.47	20.785	
8,000.0	7,995.9	8,010.3	7,995.9	12.1	14.9	113.96	-249.9	354.9	467.0	444.4	22.63	20.637	
8,100.0	8,095.9	8,110.3	8,095.9	12.2	15.0	113.96	-249.9	354.9	467.0	444.2	22.79	20.491	
8,200.0	8,195.9	8,210.3	8,195.9	12.3	15.1	113.96	-249.9	354.9	467.0	444.0	22.95	20.346	
8,300.0	8,295.9	8,310.3	8,295.9	12.4	15.1	113.96	-249.9	354.9	467.0	443.9	23.11	20.204	
8,400.0	8,395.9	8,410.3	8,395.9	12.5	15.2	113.96	-249.9	354.9	467.0	443.7	23.27	20.064	
8,500.0	8,495.9	8,510.3	8,495.9	12.6	15.2	113.96	-249.9	354.9	467.0	443.5	23.44	19.925	
8,600.0	8,595.9	8,610.3	8,595.9	12.6	15.3	113.96	-249.9	354.9	467.0	443.4	23.60	19.789	
8,700.0	8,695.9	8,710.3	8,695.9	12.7	15.3	113.96	-249.9	354.9	467.0	443.2	23.76	19.654	
8,800.0	8,795.9	8,810.3	8,795.9	12.8	15.4	113.96	-249.9	354.9	467.0	443.1	23.92	19.522	
8,900.0	8,895.9	8,910.3	8,895.9	12.9	15.5	113.96	-249.9	354.9	467.0	442.9	24.08	19.391	
9,000.0	8,995.9	9,010.3	8,995.9	13.0	15.5	113.96	-249.9	354.9	467.0	442.7	24.24	19.262	
9,100.0	9,095.9	9,110.3	9,095.9	13.0	15.6	113.96	-249.9	354.9	467.0	442.6	24.41	19.134	
9,106.9	9,102.8	9,117.2	9,102.8	13.1	15.6	114.12	-249.9	354.9	467.0	442.6	24.41	19.127	
9,200.0	9,195.9	9,210.3	9,195.9	13.1	15.6	114.13	-249.9	354.9	467.0	442.5	24.54	19.035 ES, SF	
9,300.0	9,294.9	9,309.3	9,294.9	13.1	15.7	114.95	-249.9	354.9	472.4	447.8	24.61	19.197	
9,400.0	9,389.1	9,403.5	9,389.1	13.2	15.7	116.66	-249.9	354.9	487.6	462.9	24.68	19.757	
9,500.0	9,474.3	9,488.7	9,474.3	13.3	15.8	118.31	-249.9	354.9	514.8	490.0	24.82	20.742	
9,600.0	9,546.9	9,561.3	9,546.9	13.4	15.8	118.64	-249.9	354.9	556.2	531.1	25.08	22.174	
9,700.0	9,603.6	9,618.1	9,603.6	13.5	15.9	116.30	-249.9	354.9	612.2	586.7	25.46	24.048	
9,800.0	9,642.1	9,656.5	9,642.1	13.6	15.9	109.66	-249.9	354.9	681.3	655.4	25.88	26.329	
9,900.0	9,660.5	9,674.9	9,660.5	13.7	15.9	96.82	-249.9	354.9	760.3	734.1	26.27	28.944	
10,000.0	9,662.6	9,677.0	9,662.6	13.8	15.9	90.81	-249.9	354.9	845.0	818.4	26.59	31.775	
10,100.0	9,663.4	9,677.8	9,663.4	13.9	15.9	90.92	-249.9	354.9	932.7	905.8	26.87	34.706	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #903H - OWB - PWP1													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 9944-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	3.4	3.0	3.0	89.74	2.1	459.0	459.0				
100.0	100.0	96.6	100.0	3.0	3.0	89.74	2.1	459.0	459.0	452.5	6.51	70.498	
200.0	200.0	196.6	200.0	3.2	3.2	89.74	2.1	459.0	459.0	452.3	6.75	68.013	
300.0	300.0	296.6	300.0	3.3	3.3	89.74	2.1	459.0	459.0	452.0	6.98	65.750	
400.0	400.0	396.6	400.0	3.4	3.4	89.74	2.1	459.0	459.0	451.8	7.20	63.708	
500.0	500.0	496.6	500.0	3.5	3.5	89.74	2.1	459.0	459.0	451.6	7.42	61.850	
600.0	600.0	596.6	600.0	3.7	3.7	89.74	2.1	459.0	459.0	451.4	7.63	60.150	
700.0	700.0	696.6	700.0	3.8	3.8	89.74	2.1	459.0	459.0	451.2	7.83	58.585	
800.0	800.0	796.6	800.0	3.9	3.9	89.74	2.1	459.0	459.0	451.0	8.03	57.139	
900.0	900.0	896.6	900.0	4.0	4.0	89.74	2.1	459.0	459.0	450.8	8.23	55.797	
1,000.0	1,000.0	996.6	1,000.0	4.2	4.1	89.74	2.1	459.0	459.0	450.6	8.41	54.548	
1,100.0	1,100.0	1,096.6	1,100.0	4.3	4.3	89.74	2.1	459.0	459.0	450.4	8.60	53.380	
1,200.0	1,200.0	1,196.6	1,200.0	4.4	4.4	89.74	2.1	459.0	459.0	450.2	8.78	52.286	
1,300.0	1,300.0	1,296.6	1,300.0	4.5	4.5	89.74	2.1	459.0	459.0	450.0	8.95	51.258	
1,400.0	1,400.0	1,396.6	1,400.0	4.6	4.6	89.74	2.1	459.0	459.0	449.9	9.13	50.289	
1,500.0	1,500.0	1,496.6	1,500.0	4.7	4.7	89.74	2.1	459.0	459.0	449.7	9.30	49.374	
1,600.0	1,600.0	1,610.2	1,613.5	4.9	4.9	-140.25	0.7	457.4	458.9	449.3	9.61	47.749	
1,700.0	1,699.8	1,724.2	1,727.4	5.1	5.2	-140.20	-3.5	452.3	458.5	448.4	10.09	45.427	
1,800.0	1,799.5	1,838.2	1,840.8	5.4	5.5	-140.12	-10.7	443.7	457.6	447.0	10.59	43.229	
1,900.0	1,898.9	1,952.0	1,953.6	5.6	5.8	-139.81	-20.8	431.7	455.1	444.0	11.04	41.217	
2,000.0	1,998.4	2,065.4	2,065.1	5.8	6.2	-139.13	-33.6	416.4	449.5	438.0	11.51	39.051	
2,100.0	2,097.8	2,177.9	2,175.0	6.1	6.6	-138.05	-49.2	397.8	441.1	429.1	11.99	36.790	
2,200.0	2,197.3	2,285.0	2,278.7	6.3	6.9	-136.63	-66.5	377.3	430.1	417.8	12.38	34.756	
2,300.0	2,296.7	2,383.7	2,374.0	6.5	7.2	-135.10	-82.9	357.7	418.7	405.9	12.74	32.859	
2,400.0	2,396.4	2,482.2	2,469.1	6.8	7.6	-133.30	-99.3	338.2	406.4	393.3	13.17	30.852	
2,500.0	2,496.1	2,580.3	2,564.0	7.1	7.9	-131.19	-115.6	318.7	393.4	379.9	13.58	28.971	
2,600.0	2,596.0	2,678.1	2,658.4	7.4	8.3	-128.75	-131.9	299.3	379.9	365.9	13.95	27.234	
2,700.0	2,695.9	2,774.3	2,751.4	7.6	8.6	-126.03	-147.5	280.5	366.1	351.8	14.24	25.703	
2,800.0	2,795.9	2,869.8	2,844.3	7.9	9.0	-123.36	-160.5	262.8	352.6	338.1	14.54	24.251	
2,900.0	2,895.9	2,966.1	2,938.7	7.9	9.4	109.14	-170.7	246.4	339.6	324.8	14.73	23.056	
3,000.0	2,995.9	3,063.5	3,034.6	8.0	9.8	111.25	-178.1	231.1	327.4	312.4	14.98	21.856	
3,100.0	3,095.9	3,161.6	3,131.6	8.1	10.1	112.94	-182.6	217.2	315.9	300.6	15.22	20.753	
3,200.0	3,195.9	3,260.7	3,229.7	8.2	10.5	114.47	-185.7	203.7	304.7	289.2	15.47	19.688	
3,300.0	3,295.9	3,359.7	3,327.7	8.3	10.8	116.11	-188.8	190.3	293.7	278.0	15.74	18.660	
3,400.0	3,395.9	3,458.7	3,425.8	8.4	11.2	117.88	-191.9	176.9	283.0	267.0	15.99	17.699	
3,500.0	3,495.9	3,557.8	3,523.9	8.4	11.6	119.79	-195.0	163.4	272.6	256.3	16.22	16.804	
3,600.0	3,595.9	3,656.8	3,621.9	8.5	11.9	121.84	-198.1	150.0	262.5	246.0	16.43	15.973	
3,700.0	3,695.9	3,755.8	3,720.0	8.6	12.3	124.06	-201.2	136.6	252.8	236.1	16.62	15.205	
3,800.0	3,795.9	3,854.8	3,818.1	8.7	12.7	126.44	-204.3	123.2	243.4	226.6	16.79	14.499	
3,900.0	3,895.9	3,953.9	3,916.1	8.8	13.1	129.01	-207.4	109.7	234.6	217.6	16.93	13.851	
4,000.0	3,995.9	4,052.9	4,014.2	8.9	13.4	131.77	-210.5	96.3	226.2	209.2	17.06	13.260	
4,100.0	4,095.9	4,151.9	4,112.2	8.9	13.8	134.73	-213.6	82.9	218.4	201.3	17.17	12.723	
4,200.0	4,195.9	4,250.9	4,210.3	9.0	14.2	137.90	-216.7	69.4	211.3	194.0	17.27	12.235	
4,300.0	4,295.9	4,350.0	4,308.4	9.1	14.6	141.28	-219.8	56.0	204.8	187.4	17.37	11.792	
4,400.0	4,395.9	4,449.0	4,406.4	9.2	15.0	144.86	-222.9	42.6	199.1	181.6	17.49	11.386	
4,500.0	4,495.9	4,548.0	4,504.5	9.3	15.4	148.63	-226.0	29.2	194.3	176.6	17.64	11.010	
4,600.0	4,595.9	4,647.0	4,602.6	9.3	15.8	152.58	-229.1	15.7	190.3	172.4	17.86	10.657	
4,700.0	4,695.9	4,746.1	4,700.6	9.4	16.2	156.66	-232.2	2.3	187.3	169.1	18.15	10.320	
4,800.0	4,795.9	4,845.1	4,798.7	9.5	16.6	160.86	-235.3	-11.1	185.3	166.7	18.54	9.993	
4,900.0	4,895.9	4,944.1	4,896.8	9.6	17.0	165.13	-238.4	-24.6	184.3	165.2	19.04	9.678	
4,943.7	4,939.6	4,987.4	4,939.6	9.6	17.2	167.00	-239.8	-30.4	184.2	164.9	19.30	9.544 CC	
5,000.0	4,995.9	5,043.2	4,994.8	9.7	17.4	169.41	-241.5	-38.0	184.3	164.7	19.66	9.376 ES	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #903H - OWB - PWP1													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 9944-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Rule Assigned:	
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
5,100.0	5,095.9	5,142.2	5,092.9	9.8	17.8	173.67	-244.6	-51.4	185.5	165.1	20.39	9.095	
5,200.0	5,195.9	5,241.2	5,190.9	9.8	18.2	177.86	-247.7	-64.8	187.6	166.4	21.22	8.840	
5,300.0	5,295.9	5,340.2	5,289.0	9.9	18.6	-178.07	-250.8	-78.3	190.7	168.6	22.13	8.619	
5,400.0	5,395.9	5,439.3	5,387.1	10.0	19.0	-174.15	-253.9	-91.7	194.8	171.7	23.10	8.434	
5,500.0	5,495.9	5,538.3	5,485.1	10.1	19.4	-170.40	-257.0	-105.1	199.8	175.7	24.10	8.289	
5,600.0	5,595.9	5,637.3	5,583.2	10.2	19.9	-166.85	-260.1	-118.6	205.6	180.5	25.12	8.183	
5,700.0	5,695.9	5,736.3	5,681.3	10.3	20.3	-163.49	-263.2	-132.0	212.1	186.0	26.15	8.113	
5,800.0	5,795.9	5,835.4	5,779.3	10.3	20.7	-160.35	-266.3	-145.4	219.4	192.2	27.16	8.077	
5,900.0	5,895.9	5,934.4	5,877.4	10.4	21.1	-157.41	-269.4	-158.8	227.2	199.1	28.16	8.071	
6,000.0	5,995.9	6,033.4	5,975.4	10.5	21.5	-154.68	-272.5	-172.3	235.7	206.5	29.13	8.090	
6,100.0	6,095.9	6,132.4	6,073.5	10.6	21.9	-152.13	-275.6	-185.7	244.6	214.5	30.07	8.132	
6,200.0	6,195.9	6,231.5	6,171.6	10.7	22.3	-149.77	-278.7	-199.1	254.0	223.0	30.99	8.194	
6,300.0	6,295.9	6,330.5	6,269.6	10.7	22.8	-147.58	-281.8	-212.6	263.7	231.8	31.89	8.271	
6,400.0	6,395.9	6,429.5	6,367.7	10.8	23.2	-145.54	-284.9	-226.0	273.9	241.1	32.75	8.361	
6,500.0	6,495.9	6,528.6	6,465.8	10.9	23.6	-143.65	-288.0	-239.4	284.3	250.7	33.60	8.462	
6,600.0	6,595.9	6,627.6	6,563.8	11.0	24.0	-141.90	-291.1	-252.8	295.1	260.6	34.42	8.572	
6,700.0	6,695.9	6,726.6	6,661.9	11.1	24.4	-140.27	-294.2	-266.3	306.0	270.8	35.22	8.690	
6,800.0	6,795.9	6,827.1	6,761.4	11.2	24.8	-138.74	-297.3	-279.8	317.2	281.2	36.01	8.808	
6,900.0	6,895.9	6,931.1	6,864.6	11.2	25.3	-137.41	-300.2	-292.4	327.4	290.6	36.79	8.901	
7,000.0	6,995.9	7,035.6	6,968.5	11.3	25.7	-136.33	-302.7	-303.3	336.3	298.8	37.45	8.979	
7,100.0	7,095.9	7,140.4	7,072.9	11.4	26.1	-135.48	-304.8	-312.3	343.7	305.7	38.06	9.031	
7,200.0	7,195.9	7,245.6	7,177.8	11.5	26.5	-134.83	-306.5	-319.5	349.6	311.0	38.60	9.058	
7,300.0	7,295.9	7,350.9	7,283.0	11.6	26.9	-134.37	-307.7	-324.8	354.1	315.0	39.08	9.061	
7,400.0	7,395.9	7,456.5	7,388.5	11.7	27.2	-134.07	-308.5	-328.2	356.9	317.4	39.48	9.041	
7,500.0	7,495.9	7,562.1	7,494.2	11.7	27.4	-133.94	-308.9	-329.8	358.2	318.5	39.72	9.017	
7,600.0	7,595.9	7,663.9	7,595.9	11.8	27.5	-133.94	-308.9	-329.8	358.3	318.4	39.86	8.988	
7,700.0	7,695.9	7,763.9	7,695.9	11.9	27.5	-133.94	-308.9	-329.8	358.3	318.3	39.96	8.966	
7,800.0	7,795.9	7,863.9	7,795.9	12.0	27.5	-133.94	-308.9	-329.8	358.3	318.2	40.04	8.948	
7,900.0	7,895.9	7,963.9	7,895.9	12.1	27.6	-133.94	-308.9	-329.8	358.3	318.1	40.12	8.930	
8,000.0	7,995.9	8,063.9	7,995.9	12.1	27.6	-133.94	-308.9	-329.8	358.3	318.1	40.20	8.912	
8,100.0	8,095.9	8,163.9	8,095.9	12.2	27.6	-133.94	-308.9	-329.8	358.3	318.0	40.28	8.894	
8,200.0	8,195.9	8,263.9	8,195.9	12.3	27.6	-133.94	-308.9	-329.8	358.3	317.9	40.37	8.876	
8,300.0	8,295.9	8,363.9	8,295.9	12.4	27.6	-133.94	-308.9	-329.8	358.3	317.8	40.45	8.857	
8,400.0	8,395.9	8,463.9	8,395.9	12.5	27.7	-133.94	-308.9	-329.8	358.3	317.7	40.53	8.839	
8,500.0	8,495.9	8,563.9	8,495.9	12.6	27.7	-133.94	-308.9	-329.8	358.3	317.6	40.62	8.821	
8,600.0	8,595.9	8,663.9	8,595.9	12.6	27.7	-133.94	-308.9	-329.8	358.3	317.6	40.70	8.803	
8,700.0	8,695.9	8,763.9	8,695.9	12.7	27.7	-133.94	-308.9	-329.8	358.3	317.5	40.78	8.784	
8,800.0	8,795.9	8,863.9	8,795.9	12.8	27.8	-133.94	-308.9	-329.8	358.3	317.4	40.87	8.766	
8,900.0	8,895.9	8,963.9	8,895.9	12.9	27.8	-133.94	-308.9	-329.8	358.3	317.3	40.96	8.747	
9,000.0	8,995.9	9,063.9	8,995.9	13.0	27.8	-133.94	-308.9	-329.8	358.3	317.2	41.04	8.729	
9,100.0	9,095.9	9,163.9	9,095.9	13.0	27.8	-133.94	-308.9	-329.8	358.3	317.1	41.13	8.711	
9,106.9	9,102.8	9,170.8	9,102.8	13.1	27.8	-133.77	-308.9	-329.8	358.3	317.1	41.13	8.710	
9,200.0	9,195.9	9,263.9	9,195.9	13.1	27.9	-133.78	-308.9	-329.8	358.4	317.2	41.20	8.699	
9,300.0	9,294.9	9,362.9	9,294.9	13.1	27.9	-134.44	-308.9	-329.8	367.3	326.3	40.99	8.961	
9,400.0	9,389.1	9,457.1	9,389.1	13.2	27.9	-135.75	-308.9	-329.8	391.5	351.1	40.38	9.695	
9,500.0	9,474.3	9,542.3	9,474.3	13.3	27.9	-136.73	-308.9	-329.8	431.8	392.4	39.46	10.943	
9,600.0	9,546.9	9,614.9	9,546.9	13.4	28.0	-136.21	-308.9	-329.8	488.4	450.0	38.40	12.721	
9,700.0	9,603.6	9,671.6	9,603.6	13.5	28.0	-132.61	-308.9	-329.8	559.8	522.4	37.35	14.989	
9,800.0	9,642.1	9,710.0	9,642.1	13.6	28.0	-123.09	-308.9	-329.8	642.9	606.5	36.42	17.654	
9,900.0	9,660.5	9,728.5	9,660.5	13.7	28.0	-102.13	-308.9	-329.8	733.8	698.1	35.63	20.593	
10,000.0	9,662.6	11,014.9	10,375.5	13.8	28.6	-160.03	470.5	-332.5	758.6	719.9	38.67	19.614	
10,100.0	9,663.4	11,114.9	10,376.5	13.9	28.8	-160.03	570.5	-332.8	758.7	719.6	39.10	19.404	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #903H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 9944-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		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	
10,200.0	9,664.2	11,214.9	10,377.5	14.2	29.0	-160.03	670.5	-333.2	758.9	719.3	39.59	19.171	
10,300.0	9,665.1	11,314.9	10,378.5	14.4	29.1	-160.03	770.5	-333.5	759.1	718.9	40.12	18.918	
10,400.0	9,665.9	11,414.9	10,379.4	14.7	29.3	-160.03	870.5	-333.9	759.2	718.5	40.72	18.647	
10,500.0	9,666.7	11,514.9	10,380.4	15.1	29.6	-160.03	970.5	-334.2	759.4	718.1	41.36	18.363	
10,600.0	9,667.5	11,614.9	10,381.4	15.5	29.8	-160.03	1,070.5	-334.5	759.6	717.5	42.05	18.066	
10,700.0	9,668.4	11,714.9	10,382.4	15.9	30.0	-160.03	1,170.5	-334.9	759.8	717.0	42.78	17.760	
10,800.0	9,669.2	11,814.9	10,383.4	16.4	30.3	-160.03	1,270.5	-335.2	759.9	716.4	43.56	17.447	
10,900.0	9,670.0	11,914.9	10,384.4	16.9	30.6	-160.03	1,370.5	-335.6	760.1	715.7	44.37	17.130	
11,000.0	9,670.9	12,014.9	10,385.4	17.4	30.9	-160.03	1,470.5	-335.9	760.3	715.0	45.23	16.810	
11,100.0	9,671.7	12,114.9	10,386.4	17.9	31.2	-160.03	1,570.5	-336.3	760.4	714.3	46.12	16.488	
11,200.0	9,672.5	12,214.9	10,387.4	18.4	31.5	-160.03	1,670.5	-336.6	760.6	713.6	47.05	16.167	
11,300.0	9,673.3	12,314.9	10,388.4	19.0	31.9	-160.03	1,770.5	-336.9	760.8	712.8	48.00	15.848	
11,400.0	9,674.2	12,414.9	10,389.4	19.6	32.2	-160.03	1,870.4	-337.3	761.0	712.0	48.99	15.532	
11,500.0	9,675.0	12,514.9	10,390.3	20.1	32.6	-160.04	1,970.4	-337.6	761.1	711.1	50.01	15.220	
11,600.0	9,675.8	12,614.9	10,391.3	20.7	33.0	-160.04	2,070.4	-338.0	761.3	710.3	51.05	14.912	
11,700.0	9,676.6	12,714.9	10,392.3	21.3	33.4	-160.04	2,170.4	-338.3	761.5	709.4	52.12	14.609	
11,800.0	9,677.5	12,814.9	10,393.3	22.0	33.8	-160.04	2,270.4	-338.6	761.7	708.4	53.22	14.313	
11,900.0	9,678.3	12,914.9	10,394.3	22.6	34.2	-160.04	2,370.4	-339.0	761.8	707.5	54.33	14.022	
12,000.0	9,679.1	13,014.9	10,395.3	23.2	34.6	-160.04	2,470.4	-339.3	762.0	706.5	55.46	13.738	
12,100.0	9,679.9	13,114.9	10,396.3	23.9	35.0	-160.04	2,570.4	-339.7	762.2	705.5	56.62	13.461	
12,200.0	9,680.8	13,214.9	10,397.3	24.5	35.5	-160.04	2,670.4	-340.0	762.3	704.5	57.79	13.191	
12,300.0	9,681.6	13,314.9	10,398.3	25.2	35.9	-160.04	2,770.4	-340.3	762.5	703.5	58.98	12.928	
12,400.0	9,682.4	13,414.9	10,399.3	25.8	36.4	-160.04	2,870.4	-340.7	762.7	702.5	60.19	12.671	
12,500.0	9,683.2	13,514.9	10,400.2	26.5	36.9	-160.04	2,970.4	-341.0	762.9	701.4	61.41	12.422	
12,600.0	9,684.1	13,614.9	10,401.2	27.2	37.4	-160.04	3,070.4	-341.4	763.0	700.4	62.65	12.179	
12,700.0	9,684.9	13,714.9	10,402.2	27.8	37.9	-160.04	3,170.4	-341.7	763.2	699.3	63.90	11.944	
12,800.0	9,685.7	13,814.9	10,403.2	28.5	38.4	-160.04	3,270.4	-342.1	763.4	698.2	65.16	11.715	
12,900.0	9,686.6	13,914.9	10,404.2	29.2	38.9	-160.04	3,370.4	-342.4	763.5	697.1	66.44	11.493	
13,000.0	9,687.4	14,014.9	10,405.2	29.9	39.4	-160.04	3,470.4	-342.7	763.7	696.0	67.72	11.277	
13,100.0	9,688.2	14,114.9	10,406.2	30.6	40.0	-160.04	3,570.3	-343.1	763.9	694.9	69.02	11.068	
13,200.0	9,689.0	14,214.9	10,407.2	31.3	40.5	-160.05	3,670.3	-343.4	764.1	693.7	70.32	10.865	
13,300.0	9,689.9	14,314.9	10,408.2	32.0	41.0	-160.05	3,770.3	-343.8	764.2	692.6	71.64	10.667	
13,400.0	9,690.7	14,414.9	10,409.2	32.7	41.6	-160.05	3,870.3	-344.1	764.4	691.4	72.97	10.476	
13,500.0	9,691.5	14,514.9	10,410.2	33.4	42.2	-160.05	3,970.3	-344.4	764.6	690.3	74.30	10.290	
13,600.0	9,692.3	14,614.9	10,411.1	34.1	42.7	-160.05	4,070.3	-344.8	764.7	689.1	75.64	10.110	
13,700.0	9,693.2	14,714.9	10,412.1	34.8	43.3	-160.05	4,170.3	-345.1	764.9	687.9	76.99	9.935	
13,800.0	9,694.0	14,814.9	10,413.1	35.5	43.9	-160.05	4,270.3	-345.5	765.1	686.7	78.35	9.765	
13,900.0	9,694.8	14,914.9	10,414.1	36.2	44.5	-160.05	4,370.3	-345.8	765.3	685.6	79.71	9.600	
14,000.0	9,695.6	15,014.9	10,415.1	36.9	45.1	-160.05	4,470.3	-346.1	765.4	684.4	81.08	9.440	
14,100.0	9,696.5	15,114.9	10,416.1	37.6	45.6	-160.05	4,570.3	-346.5	765.6	683.1	82.46	9.285	
14,200.0	9,697.3	15,214.9	10,417.1	38.4	46.2	-160.05	4,670.3	-346.8	765.8	681.9	83.84	9.134	
14,300.0	9,698.1	15,314.9	10,418.1	39.1	46.9	-160.05	4,770.3	-347.2	766.0	680.7	85.23	8.987	
14,400.0	9,698.9	15,414.9	10,419.1	39.8	47.5	-160.05	4,870.3	-347.5	766.1	679.5	86.62	8.845	
14,500.0	9,699.8	15,514.9	10,420.1	40.5	48.1	-160.05	4,970.3	-347.8	766.3	678.3	88.02	8.706	
14,600.0	9,700.6	15,614.9	10,421.1	41.3	48.7	-160.05	5,070.3	-348.2	766.5	677.0	89.42	8.571	
14,700.0	9,701.4	15,714.9	10,422.0	42.0	49.3	-160.05	5,170.3	-348.5	766.6	675.8	90.83	8.440	
14,800.0	9,702.3	15,814.9	10,423.0	42.7	49.9	-160.05	5,270.3	-348.9	766.8	674.6	92.24	8.313	
14,900.0	9,703.1	15,914.9	10,424.0	43.4	50.6	-160.06	5,370.2	-349.2	767.0	673.3	93.66	8.189	
15,000.0	9,703.9	16,014.9	10,425.0	44.2	51.2	-160.06	5,470.2	-349.6	767.2	672.1	95.08	8.069	
15,100.0	9,704.7	16,114.9	10,426.0	44.9	51.8	-160.06	5,570.2	-349.9	767.3	670.8	96.50	7.951	
15,200.0	9,705.6	16,214.9	10,427.0	45.6	52.5	-160.06	5,670.2	-350.2	767.5	669.6	97.93	7.837	
15,300.0	9,706.4	16,314.9	10,428.0	46.4	53.1	-160.06	5,770.2	-350.6	767.7	668.3	99.36	7.726	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #903H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 9944-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.0	9,707.2	16,414.9	10,429.0	47.1	53.8	-160.06	5,870.2	-350.9	767.8	667.0	100.80	7.618		
15,500.0	9,708.0	16,514.9	10,430.0	47.8	54.4	-160.06	5,970.2	-351.3	768.0	665.8	102.23	7.512		
15,600.0	9,708.9	16,614.9	10,431.0	48.6	55.1	-160.06	6,070.2	-351.6	768.2	664.5	103.68	7.410		
15,700.0	9,709.7	16,714.9	10,432.0	49.3	55.7	-160.06	6,170.2	-351.9	768.4	663.2	105.12	7.309		
15,800.0	9,710.5	16,814.9	10,432.9	50.0	56.4	-160.06	6,270.2	-352.3	768.5	662.0	106.57	7.212		
15,900.0	9,711.3	16,914.9	10,433.9	50.8	57.1	-160.06	6,370.2	-352.6	768.7	660.7	108.02	7.117		
16,000.0	9,712.2	17,014.9	10,434.9	51.5	57.7	-160.06	6,470.2	-353.0	768.9	659.4	109.47	7.024		
16,100.0	9,713.0	17,114.9	10,435.9	52.3	58.4	-160.06	6,570.2	-353.3	769.0	658.1	110.92	6.933		
16,200.0	9,713.8	17,214.9	10,436.9	53.0	59.1	-160.06	6,670.2	-353.6	769.2	656.8	112.38	6.845		
16,300.0	9,714.6	17,314.9	10,437.9	53.7	59.7	-160.06	6,770.2	-354.0	769.4	655.6	113.84	6.759		
16,400.0	9,715.5	17,414.9	10,438.9	54.5	60.4	-160.06	6,870.2	-354.3	769.6	654.3	115.30	6.674		
16,500.0	9,716.3	17,514.9	10,439.9	55.2	61.1	-160.06	6,970.2	-354.7	769.7	653.0	116.76	6.592		
16,600.0	9,717.1	17,614.9	10,440.9	56.0	61.8	-160.06	7,070.2	-355.0	769.9	651.7	118.23	6.512		
16,700.0	9,718.0	17,714.9	10,441.9	56.7	62.5	-160.07	7,170.1	-355.4	770.1	650.4	119.70	6.434		
16,800.0	9,718.8	17,814.9	10,442.9	57.5	63.1	-160.07	7,270.1	-355.7	770.3	649.1	121.17	6.357		
16,900.0	9,719.6	17,914.9	10,443.8	58.2	63.8	-160.07	7,370.1	-356.0	770.4	647.8	122.64	6.282		
17,000.0	9,720.4	18,014.9	10,444.8	59.0	64.5	-160.07	7,470.1	-356.4	770.6	646.5	124.11	6.209		
17,100.0	9,721.3	18,114.9	10,445.8	59.7	65.2	-160.07	7,570.1	-356.7	770.8	645.2	125.59	6.137		
17,200.0	9,722.1	18,214.9	10,446.8	60.4	65.9	-160.07	7,670.1	-357.1	770.9	643.9	127.06	6.067		
17,300.0	9,722.9	18,314.9	10,447.8	61.2	66.6	-160.07	7,770.1	-357.4	771.1	642.6	128.54	5.999		
17,400.0	9,723.7	18,414.9	10,448.8	61.9	67.3	-160.07	7,870.1	-357.7	771.3	641.3	130.02	5.932		
17,500.0	9,724.6	18,514.9	10,449.8	62.7	68.0	-160.07	7,970.1	-358.1	771.5	640.0	131.50	5.866		
17,600.0	9,725.4	18,614.9	10,450.8	63.4	68.7	-160.07	8,070.1	-358.4	771.6	638.6	132.99	5.802		
17,700.0	9,726.2	18,714.9	10,451.8	64.2	69.4	-160.07	8,170.1	-358.8	771.8	637.3	134.47	5.740		
17,800.0	9,727.0	18,814.9	10,452.8	64.9	70.1	-160.07	8,270.1	-359.1	772.0	636.0	135.95	5.678		
17,900.0	9,727.9	18,914.9	10,453.7	65.7	70.8	-160.07	8,370.1	-359.4	772.1	634.7	137.44	5.618		
18,000.0	9,728.7	19,014.9	10,454.7	66.4	71.5	-160.07	8,470.1	-359.8	772.3	633.4	138.93	5.559		
18,100.0	9,729.5	19,114.9	10,455.7	67.2	72.2	-160.07	8,570.1	-360.1	772.5	632.1	140.42	5.501		
18,200.0	9,730.4	19,214.9	10,456.7	67.9	72.9	-160.07	8,670.1	-360.5	772.7	630.8	141.91	5.445		
18,300.0	9,731.2	19,314.9	10,457.7	68.7	73.6	-160.07	8,770.1	-360.8	772.8	629.4	143.40	5.389		
18,400.0	9,732.0	19,414.9	10,458.7	69.4	74.3	-160.08	8,870.1	-361.1	773.0	628.1	144.89	5.335		
18,500.0	9,732.8	19,514.9	10,459.7	70.2	75.0	-160.08	8,970.0	-361.5	773.2	626.8	146.39	5.282		
18,600.0	9,733.7	19,614.9	10,460.7	70.9	75.7	-160.08	9,070.0	-361.8	773.4	625.5	147.88	5.230		
18,700.0	9,734.5	19,714.9	10,461.7	71.7	76.4	-160.08	9,170.0	-362.2	773.5	624.1	149.38	5.178		
18,800.0	9,735.3	19,814.9	10,462.7	72.4	77.1	-160.08	9,270.0	-362.5	773.7	622.8	150.87	5.128		
18,900.0	9,736.1	19,914.9	10,463.7	73.2	77.8	-160.08	9,370.0	-362.9	773.9	621.5	152.37	5.079		
19,000.0	9,737.0	20,014.9	10,464.6	73.9	78.6	-160.08	9,470.0	-363.2	774.0	620.2	153.87	5.030		
19,100.0	9,737.8	20,114.9	10,465.6	74.7	79.3	-160.08	9,570.0	-363.5	774.2	618.8	155.37	4.983		
19,200.0	9,738.6	20,214.9	10,466.6	75.4	80.0	-160.08	9,670.0	-363.9	774.4	617.5	156.87	4.936		
19,300.0	9,739.4	20,314.9	10,467.6	76.2	80.7	-160.08	9,770.0	-364.2	774.6	616.2	158.37	4.891		
19,400.0	9,740.3	20,414.9	10,468.6	76.9	81.4	-160.08	9,870.0	-364.6	774.7	614.9	159.87	4.846		
19,500.0	9,741.1	20,514.9	10,469.6	77.7	82.1	-160.08	9,970.0	-364.9	774.9	613.5	161.38	4.802		
19,600.0	9,741.9	20,614.9	10,470.6	78.4	82.9	-160.08	10,070.0	-365.2	775.1	612.2	162.88	4.759		
19,700.0	9,742.7	20,714.9	10,471.6	79.2	83.6	-160.08	10,170.0	-365.6	775.2	610.9	164.39	4.716		
19,800.0	9,743.6	20,814.9	10,472.6	80.0	84.3	-160.08	10,270.0	-365.9	775.4	609.5	165.89	4.674		
19,900.0	9,744.4	20,914.9	10,473.6	80.7	85.0	-160.08	10,370.0	-366.3	775.6	608.2	167.40	4.633		
20,000.0	9,745.2	21,014.9	10,474.6	81.5	85.7	-160.08	10,470.0	-366.6	775.8	606.9	168.90	4.593		
20,100.0	9,746.1	21,114.9	10,475.5	82.2	86.5	-160.08	10,570.0	-366.9	775.9	605.5	170.41	4.553		
20,200.0	9,746.9	21,214.9	10,476.5	83.0	87.2	-160.09	10,669.9	-367.3	776.1	604.2	171.92	4.514		
20,300.0	9,747.7	21,314.9	10,477.5	83.7	87.9	-160.09	10,769.9	-367.6	776.3	602.8	173.43	4.476		
20,400.0	9,748.5	21,414.9	10,478.5	84.5	88.6	-160.09	10,869.9	-368.0	776.4	601.5	174.94	4.438		
20,500.0	9,749.4	21,514.9	10,479.5	85.2	89.4	-160.09	10,969.9	-368.3	776.6	600.2	176.45	4.401		

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #903H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 9944-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Rule Assigned:	
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
20,600.0	9,750.2	21,614.9	10,480.5	86.0	90.1	-160.09	11,069.9	-368.7	776.8	598.8	177.96	4.365	
20,700.0	9,751.0	21,714.9	10,481.5	86.7	90.8	-160.09	11,169.9	-369.0	777.0	597.5	179.47	4.329	
20,800.0	9,751.8	21,814.9	10,482.5	87.5	91.5	-160.09	11,269.9	-369.3	777.1	596.2	180.98	4.294	
20,900.0	9,752.7	21,914.9	10,483.5	88.2	92.3	-160.09	11,369.9	-369.7	777.3	594.8	182.49	4.259	
21,000.0	9,753.5	22,014.9	10,484.5	89.0	93.0	-160.09	11,469.9	-370.0	777.5	593.5	184.00	4.225	
21,100.0	9,754.3	22,114.9	10,485.5	89.8	93.7	-160.09	11,569.9	-370.4	777.7	592.1	185.52	4.192	
21,200.0	9,755.1	22,214.9	10,486.4	90.5	94.4	-160.09	11,669.9	-370.7	777.8	590.8	187.03	4.159	
21,300.0	9,756.0	22,314.9	10,487.4	91.3	95.2	-160.09	11,769.9	-371.0	778.0	589.5	188.55	4.126	
21,400.0	9,756.8	22,414.9	10,488.4	92.0	95.9	-160.09	11,869.9	-371.4	778.2	588.1	190.06	4.094	
21,500.0	9,757.6	22,514.9	10,489.4	92.8	96.6	-160.09	11,969.9	-371.7	778.3	586.8	191.58	4.063	
21,600.0	9,758.4	22,614.9	10,490.4	93.5	97.4	-160.09	12,069.9	-372.1	778.5	585.4	193.09	4.032	
21,700.0	9,759.3	22,714.9	10,491.4	94.3	98.1	-160.09	12,169.9	-372.4	778.7	584.1	194.61	4.001	
21,796.8	9,760.1	22,811.7	10,492.4	94.9	98.8	-160.09	12,266.6	-372.7	778.9	583.2	195.69	3.980 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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #904H - OWB - PWP1													Offset Site Error: 3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10231-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	3.3	3.0	3.0	89.73	2.0	429.1	429.1				
100.0	100.0	96.7	100.0	3.0	3.0	89.73	2.0	429.1	429.1	422.6	6.51	65.905	
200.0	200.0	196.7	200.0	3.2	3.2	89.73	2.0	429.1	429.1	422.4	6.75	63.581	
300.0	300.0	296.7	300.0	3.3	3.3	89.73	2.0	429.1	429.1	422.1	6.98	61.466	
400.0	400.0	396.7	400.0	3.4	3.4	89.73	2.0	429.1	429.1	421.9	7.20	59.557	
500.0	500.0	496.7	500.0	3.5	3.5	89.73	2.0	429.1	429.1	421.7	7.42	57.820	
600.0	600.0	596.7	600.0	3.7	3.7	89.73	2.0	429.1	429.1	421.5	7.63	56.231	
700.0	700.0	696.7	700.0	3.8	3.8	89.73	2.0	429.1	429.1	421.3	7.83	54.768	
800.0	800.0	796.7	800.0	3.9	3.9	89.73	2.0	429.1	429.1	421.1	8.03	53.416	
900.0	900.0	896.7	900.0	4.0	4.0	89.73	2.0	429.1	429.1	420.9	8.23	52.162	
1,000.0	1,000.0	996.7	1,000.0	4.2	4.1	89.73	2.0	429.1	429.1	420.7	8.41	50.994	
1,100.0	1,100.0	1,096.7	1,100.0	4.3	4.3	89.73	2.0	429.1	429.1	420.5	8.60	49.903	
1,200.0	1,200.0	1,196.7	1,200.0	4.4	4.4	89.73	2.0	429.1	429.1	420.3	8.78	48.880	
1,300.0	1,300.0	1,296.7	1,300.0	4.5	4.5	89.73	2.0	429.1	429.1	420.1	8.95	47.918	
1,400.0	1,400.0	1,396.7	1,400.0	4.6	4.6	89.73	2.0	429.1	429.1	420.0	9.13	47.013	
1,500.0	1,500.0	1,496.7	1,500.0	4.7	4.7	89.73	2.0	429.1	429.1	419.8	9.30	46.157	
1,600.0	1,600.0	1,596.7	1,600.0	4.9	4.9	-140.40	2.0	429.1	430.4	420.8	9.61	44.792	
1,700.0	1,699.8	1,696.5	1,699.8	5.1	5.1	-140.79	2.0	429.1	434.5	424.5	10.00	43.466	
1,800.0	1,799.5	1,796.2	1,799.5	5.4	5.2	-141.42	2.0	429.1	441.3	430.9	10.39	42.468	
1,900.0	1,898.9	1,895.6	1,898.9	5.6	5.4	-142.25	2.0	429.1	449.5	438.8	10.74	41.862	
2,000.0	1,998.4	1,995.1	1,998.4	5.8	5.5	-143.04	2.0	429.1	457.8	446.8	11.10	41.261	
2,100.0	2,097.8	2,094.5	2,097.8	6.1	5.6	-143.82	2.0	429.1	466.3	454.8	11.47	40.663	
2,200.0	2,197.3	2,194.0	2,197.3	6.3	5.8	-144.56	2.0	429.1	474.8	462.9	11.85	40.070	
2,300.0	2,296.7	2,293.4	2,296.7	6.5	5.9	-145.28	2.0	429.1	483.1	471.0	12.17	39.701	
2,400.0	2,396.4	2,393.1	2,396.4	6.8	6.0	-145.90	2.0	429.1	490.3	477.7	12.57	39.018	
2,500.0	2,496.1	2,492.8	2,496.1	7.1	6.2	-146.38	2.0	429.1	496.0	483.1	12.96	38.275	
2,600.0	2,596.0	2,612.1	2,615.4	7.4	6.3	-146.76	1.5	427.0	498.6	485.1	13.45	37.060	
2,700.0	2,695.9	2,732.9	2,736.0	7.6	6.5	-146.92	0.0	419.9	495.4	481.5	13.93	35.559	
2,800.0	2,795.9	2,853.0	2,855.4	7.9	6.7	-146.86	-2.7	407.9	486.7	472.3	14.39	33.814	
2,900.0	2,895.9	2,971.8	2,973.0	7.9	7.0	83.36	-6.4	391.3	472.6	457.9	14.70	32.143	
3,000.0	2,995.9	3,089.0	3,088.1	8.0	7.4	83.64	-11.1	370.2	454.3	439.2	15.06	30.170	
3,100.0	3,095.9	3,196.0	3,192.6	8.1	7.6	83.99	-16.1	347.3	432.4	417.1	15.32	28.221	
3,200.0	3,195.9	3,293.5	3,287.5	8.2	7.8	84.34	-20.9	325.9	410.1	394.4	15.67	26.174	
3,300.0	3,295.9	3,390.9	3,382.5	8.3	8.1	84.74	-25.6	304.5	387.7	371.7	16.03	24.181	
3,400.0	3,395.9	3,488.3	3,477.4	8.4	8.4	85.18	-30.4	283.1	365.4	349.0	16.42	22.254	
3,500.0	3,495.9	3,585.8	3,572.4	8.4	8.7	85.68	-35.1	261.7	343.1	326.3	16.82	20.397	
3,600.0	3,595.9	3,683.2	3,667.3	8.5	9.1	86.25	-39.9	240.3	320.9	303.6	17.24	18.612	
3,700.0	3,695.9	3,780.7	3,762.2	8.6	9.4	86.91	-44.6	218.9	298.7	281.0	17.67	16.901	
3,800.0	3,795.9	3,878.1	3,857.2	8.7	9.7	87.67	-49.3	197.5	276.5	258.4	18.11	15.265	
3,900.0	3,895.9	3,975.5	3,952.1	8.8	10.1	88.57	-54.1	176.1	254.3	235.8	18.56	13.704	
4,000.0	3,995.9	4,073.0	4,047.0	8.9	10.5	89.63	-58.8	154.7	232.3	213.3	19.01	12.218	
4,100.0	4,095.9	4,170.4	4,142.0	8.9	10.8	90.92	-63.6	133.3	210.3	190.8	19.46	10.806	
4,200.0	4,195.9	4,267.8	4,236.9	9.0	11.2	92.50	-68.3	111.9	188.5	168.6	19.91	9.468	
4,300.0	4,295.9	4,365.3	4,331.9	9.1	11.6	94.50	-73.1	90.5	166.8	146.5	20.33	8.204	
4,400.0	4,395.9	4,462.7	4,426.8	9.2	12.0	97.08	-77.8	69.1	145.4	124.7	20.72	7.015	
4,500.0	4,495.9	4,560.2	4,521.7	9.3	12.4	100.54	-82.5	47.7	124.3	103.3	21.05	5.908	
4,600.0	4,595.9	4,657.6	4,616.7	9.3	12.8	105.38	-87.3	26.3	103.9	82.7	21.24	4.892	
4,700.0	4,695.9	4,755.0	4,711.6	9.4	13.2	112.46	-92.0	4.9	84.6	63.4	21.20	3.989	
4,800.0	4,795.9	4,852.5	4,806.6	9.5	13.6	123.38	-96.8	-16.5	67.2	46.5	20.68	3.248	
4,900.0	4,895.9	4,949.9	4,901.5	9.6	14.1	140.50	-101.5	-37.9	53.7	34.2	19.52	2.753	
5,000.0	4,995.9	5,047.3	4,996.4	9.7	14.5	164.69	-106.3	-59.3	47.7	28.9	18.74	2.543	
5,010.6	5,006.6	5,057.7	5,006.6	9.7	14.5	167.50	-106.8	-61.6	47.6	28.8	18.80	2.532 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Offset Design: KEG SHELL FED COM PROJECT - KEG SHELL FEDERAL COM #904H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10231-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,095.9	5,144.8	5,091.4	9.8	14.9	-170.14	-111.0	-80.7	51.7	31.3	20.40	2.533	
5,200.0	5,195.9	5,242.2	5,186.3	9.8	15.3	-151.42	-115.8	-102.1	63.9	41.0	22.83	2.797	
5,300.0	5,295.9	5,339.6	5,281.3	9.9	15.8	-139.39	-120.5	-123.5	80.6	56.0	24.62	3.276	
5,400.0	5,395.9	5,437.1	5,376.2	10.0	16.2	-131.66	-125.2	-144.9	99.7	73.8	25.88	3.852	
5,500.0	5,495.9	5,534.5	5,471.1	10.1	16.6	-126.43	-130.0	-166.3	119.9	93.1	26.85	4.466	
5,600.0	5,595.9	5,632.0	5,566.1	10.2	17.1	-122.73	-134.7	-187.7	140.9	113.2	27.68	5.088	
5,700.0	5,695.9	5,729.4	5,661.0	10.3	17.5	-119.99	-139.5	-209.1	162.2	133.8	28.44	5.704	
5,800.0	5,795.9	5,826.8	5,756.0	10.3	17.9	-117.89	-144.2	-230.5	183.8	154.7	29.15	6.308	
5,900.0	5,895.9	5,924.3	5,850.9	10.4	18.4	-116.22	-149.0	-251.9	205.6	175.8	29.83	6.894	
6,000.0	5,995.9	6,021.7	5,945.8	10.5	18.8	-114.88	-153.7	-273.3	227.6	197.1	30.50	7.463	
6,100.0	6,095.9	6,119.1	6,040.8	10.6	19.3	-113.78	-158.5	-294.7	249.6	218.5	31.15	8.013	
6,200.0	6,195.9	6,216.6	6,135.7	10.7	19.7	-112.85	-163.2	-316.1	271.7	239.9	31.80	8.544	
6,300.0	6,295.9	6,314.0	6,230.7	10.7	20.2	-112.06	-167.9	-337.5	293.9	261.5	32.45	9.057	
6,400.0	6,395.9	6,411.5	6,325.6	10.8	20.6	-111.39	-172.7	-358.9	316.1	283.0	33.10	9.551	
6,500.0	6,495.9	6,508.9	6,420.5	10.9	21.1	-110.80	-177.4	-380.3	338.4	304.7	33.74	10.028	
6,600.0	6,595.9	6,606.3	6,515.5	11.0	21.5	-110.28	-182.2	-401.7	360.7	326.3	34.39	10.489	
6,700.0	6,695.9	6,703.8	6,610.4	11.1	22.0	-109.83	-186.9	-423.1	383.0	348.0	35.03	10.932	
6,800.0	6,795.9	6,801.2	6,705.4	11.2	22.4	-109.42	-191.7	-444.5	405.3	369.6	35.68	11.361	
6,900.0	6,895.9	6,898.6	6,800.3	11.2	22.9	-109.06	-196.4	-465.9	427.7	391.3	36.32	11.774	
7,000.0	6,995.9	6,996.1	6,895.2	11.3	23.3	-108.73	-201.2	-487.3	450.0	413.1	36.97	12.173	
7,100.0	7,095.9	7,093.5	6,990.2	11.4	23.8	-108.43	-205.9	-508.7	472.4	434.8	37.62	12.559	
7,200.0	7,195.9	7,191.0	7,085.1	11.5	24.2	-108.17	-210.6	-530.1	494.8	456.5	38.26	12.931	
7,300.0	7,295.9	7,288.4	7,180.1	11.6	24.7	-107.92	-215.4	-551.5	517.2	478.3	38.91	13.291	
7,400.0	7,395.9	7,385.8	7,275.0	11.7	25.1	-107.69	-220.1	-572.9	539.6	500.0	39.56	13.639	
7,500.0	7,495.9	7,483.3	7,369.9	11.7	25.6	-107.49	-224.9	-594.2	562.0	521.8	40.21	13.975	
7,600.0	7,595.9	7,580.7	7,464.9	11.8	26.0	-107.29	-229.6	-615.6	584.4	543.6	40.87	14.301	
7,700.0	7,695.9	7,678.1	7,559.8	11.9	26.5	-107.12	-234.4	-637.0	606.8	565.3	41.52	14.616	
7,800.0	7,795.9	7,775.6	7,654.8	12.0	27.0	-106.95	-239.1	-658.4	629.3	587.1	42.17	14.921	
7,900.0	7,895.9	7,873.0	7,749.7	12.1	27.4	-106.80	-243.8	-679.8	651.7	608.9	42.83	15.217	
8,000.0	7,995.9	7,970.4	7,844.6	12.1	27.9	-106.66	-248.6	-701.2	674.1	630.7	43.48	15.503	
8,100.0	8,095.9	8,067.9	7,939.6	12.2	28.3	-106.52	-253.3	-722.6	696.6	652.4	44.14	15.781	
8,200.0	8,195.9	8,165.3	8,034.5	12.3	28.8	-106.40	-258.1	-744.0	719.0	674.2	44.80	16.050	
8,300.0	8,295.9	8,262.8	8,129.5	12.4	29.3	-106.28	-262.8	-765.4	741.5	696.0	45.46	16.312	
8,400.0	8,395.9	8,360.2	8,224.4	12.5	29.7	-106.17	-267.6	-786.8	763.9	717.8	46.12	16.565	
8,500.0	8,495.9	8,457.6	8,319.3	12.6	30.2	-106.06	-272.3	-808.2	786.4	739.6	46.78	16.811	
8,600.0	8,595.9	8,555.1	8,414.3	12.6	30.7	-105.96	-277.1	-829.6	808.8	761.4	47.44	17.050	
8,700.0	8,695.9	8,652.5	8,509.2	12.7	31.1	-105.87	-281.8	-851.0	831.3	783.2	48.09	17.284	
8,800.0	8,795.9	8,762.6	8,616.7	12.8	31.6	-105.77	-287.0	-874.6	853.2	804.4	48.81	17.478	
8,900.0	8,895.9	8,878.0	8,729.6	12.9	32.2	-105.68	-292.0	-897.2	873.2	823.7	49.54	17.625	
9,000.0	8,995.9	8,994.2	8,844.0	13.0	32.7	-105.61	-296.6	-917.7	891.3	841.0	50.25	17.737	
9,100.0	9,095.9	9,111.2	8,959.5	13.0	33.2	-105.54	-300.6	-936.1	907.3	856.4	50.92	17.818	
9,200.0	9,195.9	9,229.0	9,076.1	13.1	33.7	-105.15	-304.2	-952.2	921.4	869.8	51.56	17.872	
9,300.0	9,294.9	9,345.9	9,192.1	13.1	34.2	-104.21	-307.3	-965.9	936.7	884.6	52.09	17.980	
9,400.0	9,389.1	9,457.2	9,302.9	13.2	34.6	-104.11	-309.7	-976.8	955.7	903.2	52.50	18.203	
9,500.0	9,474.3	9,558.2	9,403.5	13.3	35.0	-104.27	-311.5	-984.9	979.8	927.1	52.71	18.587	

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 KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB=32 @ 3022.3usft

Offset Depths are relative to Offset Datum

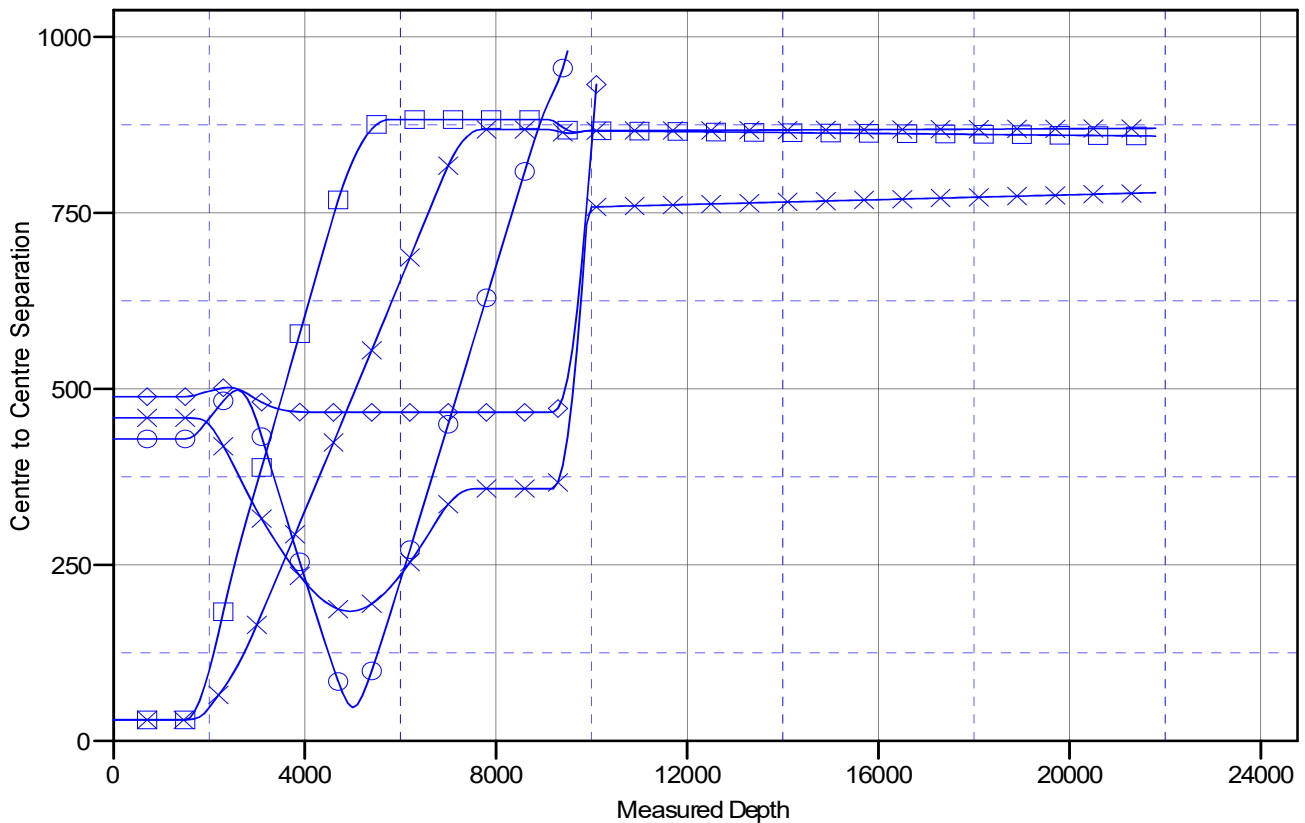
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: KEG SHELL FEDERAL COM #702H

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

Grid Convergence at Surface is: 0.15°

Ladder Plot



LEGEND

KEG SHELL FEDERAL COM#903H, OWB, PWP1 V0
 KEG SHELL FEDERAL COM#701H, OWB, PWP2 V0
 KEG SHELL FEDERAL COM#904H, OWB, PWP1 V0
 KEG SHELL FEDERAL COM#703H, OWB, PWP2 V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=32 @ 3022.3usft
Reference Site:	KEG SHELL FED COM PROJECT	MD Reference:	KB=32 @ 3022.3usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB=32 @ 3022.3usft

Offset Depths are relative to Offset Datum

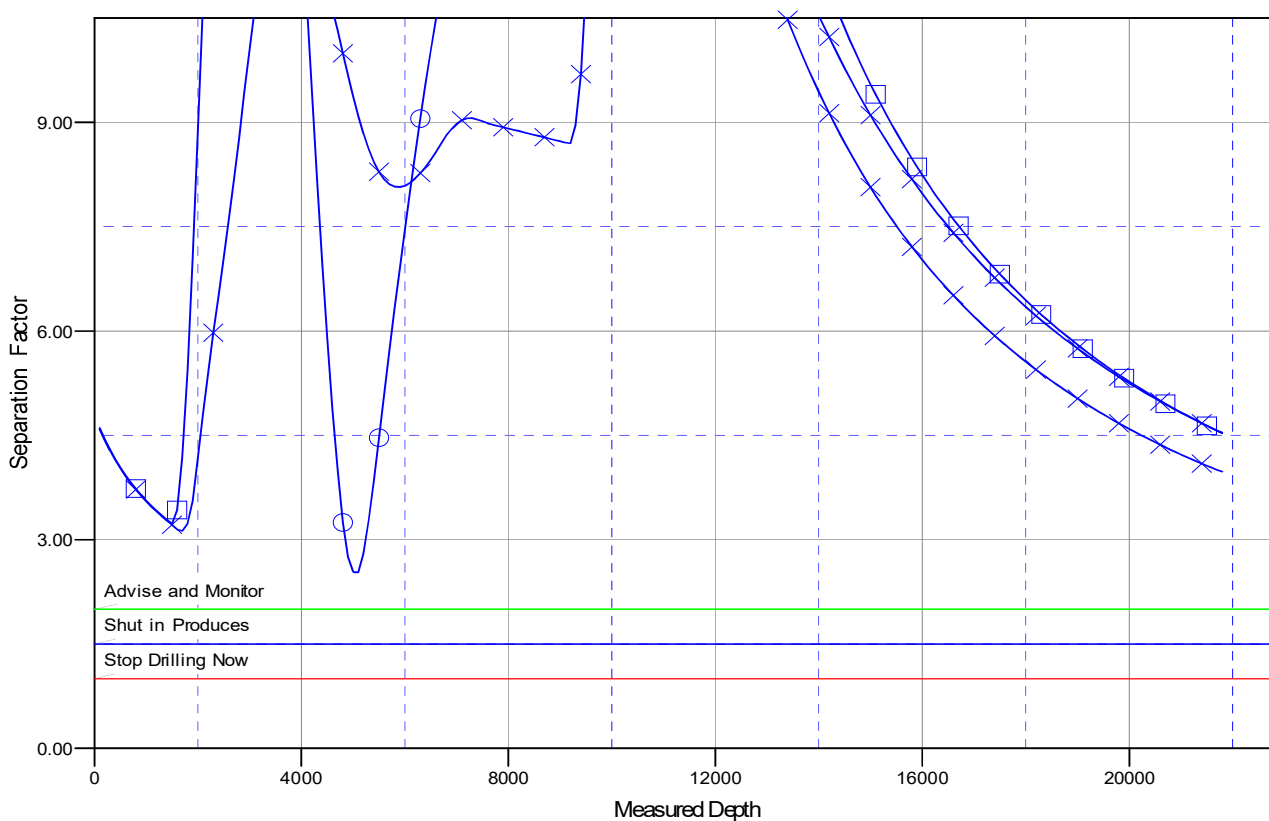
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: KEG SHELL FEDERAL COM #702H

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

Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

KEG SHELL FEDERAL COM#903H, OWB, PWP1 V0
 KEG SHELL FEDERAL COM#904H, OWB, PWP1 V0
 KEG SHELL FEDERAL COM#701H, OWB, PWP2 V0
 KEG SHELL FEDERAL COM#902H, OWB, PWP1 V0
 KEG SHELL FEDERAL COM#703H, OWB, PWP2 V0

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

KEG SHELL FED COM PROJECT

KEG SHELL FEDERAL COM #702H

300154821200

OWB

Plan: PWP2

Standard Planning Report

17 May, 2023

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

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	KEG SHELL FED COM PROJECT		
Site Position:		Northing:	363,843.46 usft
From:	Map	Easting:	588,090.89 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 0.003 N
		Longitude:	104° 2' 56.993 W

Well		KEG SHELL FEDERAL COM #702H				
Well Position	+N/-S	0.0 usft	Northing:	364,166.50 usft	Latitude:	32° 0' 3.232 N
	+E/-W	0.0 usft	Easting:	586,841.50 usft	Longitude:	104° 3' 11.493 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,990.3 usft
Grid Convergence:		0.15 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.55	59.52	47,287.28603640

Design	PWP2				
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	359.50	

Plan Survey Tool Program	Date	5/17/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,506.0 PWP2 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp		
2	1,506.0	9,152.6 PWP2 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		
3	9,152.6	21,796.3 PWP2 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,800.0	6.00	230.00	1,799.5	-10.1	-12.0	2.00	2.00	0.00	230.00	
2,247.0	6.00	230.00	2,244.0	-40.1	-47.8	0.00	0.00	0.00	0.00	
2,847.0	0.00	0.00	2,842.9	-60.3	-71.9	1.00	-1.00	21.67	180.00	
9,188.7	0.00	0.00	9,184.6	-60.3	-71.9	0.00	0.00	0.00	0.00	
9,934.7	89.53	359.83	9,662.0	413.2	-73.2	12.00	12.00	-0.02	359.83	
21,666.8	89.53	359.83	9,759.0	12,144.8	-107.2	0.00	0.00	0.00	0.00	
21,796.8	89.53	359.83	9,760.1	12,274.8	-107.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
1,600.0	2.00	230.00	1,600.0	-1.1	-1.3	-1.1	2.00	2.00	0.00
1,700.0	4.00	230.00	1,699.8	-4.5	-5.3	-4.4	2.00	2.00	0.00
1,800.0	6.00	230.00	1,799.5	-10.1	-12.0	-10.0	2.00	2.00	0.00
Start 447.0 hold at 1800.0 MD									
1,900.0	6.00	230.00	1,898.9	-16.8	-20.0	-16.6	0.00	0.00	0.00
2,000.0	6.00	230.00	1,998.4	-23.5	-28.0	-23.3	0.00	0.00	0.00
2,100.0	6.00	230.00	2,097.8	-30.2	-36.0	-29.9	0.00	0.00	0.00
2,200.0	6.00	230.00	2,197.3	-37.0	-44.1	-36.6	0.00	0.00	0.00
2,247.0	6.00	230.00	2,244.0	-40.1	-47.8	-39.7	0.00	0.00	0.00
Start DLS 1.00 TFO 180.00									
2,300.0	5.47	230.00	2,296.7	-43.5	-51.9	-43.1	1.00	-1.00	0.00
2,400.0	4.47	230.00	2,396.4	-49.1	-58.5	-48.6	1.00	-1.00	0.00
2,500.0	3.47	230.00	2,496.1	-53.5	-63.8	-53.0	1.00	-1.00	0.00
2,600.0	2.47	230.00	2,596.0	-56.9	-67.8	-56.3	1.00	-1.00	0.00
2,700.0	1.47	230.00	2,695.9	-59.1	-70.4	-58.5	1.00	-1.00	0.00
2,800.0	0.47	230.00	2,795.9	-60.2	-71.7	-59.5	1.00	-1.00	0.00
2,847.0	0.00	0.00	2,842.9	-60.3	-71.9	-59.7	1.00	-1.00	276.61
Start 6341.7 hold at 2847.0 MD									
2,900.0	0.00	0.00	2,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,000.0	0.00	0.00	2,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,100.0	0.00	0.00	3,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,200.0	0.00	0.00	3,195.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,300.0	0.00	0.00	3,295.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,400.0	0.00	0.00	3,395.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,500.0	0.00	0.00	3,495.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,600.0	0.00	0.00	3,595.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,700.0	0.00	0.00	3,695.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,800.0	0.00	0.00	3,795.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
3,900.0	0.00	0.00	3,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,000.0	0.00	0.00	3,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,100.0	0.00	0.00	4,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,200.0	0.00	0.00	4,195.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,300.0	0.00	0.00	4,295.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,400.0	0.00	0.00	4,395.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,495.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,595.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,695.9	-60.3	-71.9	-59.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

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)
4,800.0	0.00	0.00	4,795.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,100.0	0.00	0.00	5,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,195.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,295.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,395.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,495.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,595.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,695.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,795.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,195.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,295.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,395.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,495.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,595.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,695.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,795.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,195.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,295.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,395.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,495.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,595.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,695.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,795.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,195.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,295.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,395.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,495.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,595.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,695.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,795.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,895.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,995.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,095.9	-60.3	-71.9	-59.7	0.00	0.00	0.00
9,188.7	0.00	0.00	9,184.6	-60.3	-71.9	-59.7	0.00	0.00	0.00
Start DLS 12.00 TFO 359.83									
9,200.0	1.36	359.83	9,195.9	-60.2	-71.9	-59.5	12.00	12.00	-1.47
9,300.0	13.36	359.83	9,294.9	-47.4	-71.9	-46.7	12.00	12.00	0.00
9,400.0	25.36	359.83	9,389.1	-14.3	-72.0	-13.7	12.00	12.00	0.00
9,500.0	37.36	359.83	9,474.3	37.6	-72.1	38.3	12.00	12.00	0.00
9,600.0	49.36	359.83	9,546.9	106.2	-72.3	106.8	12.00	12.00	0.00
9,700.0	61.36	359.83	9,603.6	188.3	-72.6	188.9	12.00	12.00	0.00
9,800.0	73.36	359.83	9,642.1	280.4	-72.8	281.0	12.00	12.00	0.00

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

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)
9,900.0	85.36	359.83	9,660.5	378.5	-73.1	379.1	12.00	12.00	0.00
9,934.7	89.53	359.83	9,662.0	413.2	-73.2	413.8	12.00	12.00	0.00
Start 11732.0 hold at 9934.7 MD									
10,000.0	89.53	359.83	9,662.6	478.5	-73.4	479.1	0.00	0.00	0.00
10,100.0	89.53	359.83	9,663.4	578.5	-73.7	579.1	0.00	0.00	0.00
10,200.0	89.53	359.83	9,664.2	678.5	-74.0	679.1	0.00	0.00	0.00
10,300.0	89.53	359.83	9,665.1	778.5	-74.3	779.1	0.00	0.00	0.00
10,400.0	89.53	359.83	9,665.9	878.5	-74.6	879.1	0.00	0.00	0.00
10,500.0	89.53	359.83	9,666.7	978.5	-74.9	979.1	0.00	0.00	0.00
10,600.0	89.53	359.83	9,667.5	1,078.4	-75.2	1,079.1	0.00	0.00	0.00
10,700.0	89.53	359.83	9,668.4	1,178.4	-75.4	1,179.1	0.00	0.00	0.00
10,800.0	89.53	359.83	9,669.2	1,278.4	-75.7	1,279.1	0.00	0.00	0.00
10,900.0	89.53	359.83	9,670.0	1,378.4	-76.0	1,379.1	0.00	0.00	0.00
11,000.0	89.53	359.83	9,670.9	1,478.4	-76.3	1,479.0	0.00	0.00	0.00
11,100.0	89.53	359.83	9,671.7	1,578.4	-76.6	1,579.0	0.00	0.00	0.00
11,200.0	89.53	359.83	9,672.5	1,678.4	-76.9	1,679.0	0.00	0.00	0.00
11,300.0	89.53	359.83	9,673.3	1,778.4	-77.2	1,779.0	0.00	0.00	0.00
11,400.0	89.53	359.83	9,674.2	1,878.4	-77.5	1,879.0	0.00	0.00	0.00
11,500.0	89.53	359.83	9,675.0	1,978.4	-77.8	1,979.0	0.00	0.00	0.00
11,600.0	89.53	359.83	9,675.8	2,078.4	-78.1	2,079.0	0.00	0.00	0.00
11,700.0	89.53	359.83	9,676.6	2,178.4	-78.3	2,179.0	0.00	0.00	0.00
11,800.0	89.53	359.83	9,677.5	2,278.4	-78.6	2,279.0	0.00	0.00	0.00
11,900.0	89.53	359.83	9,678.3	2,378.4	-78.9	2,379.0	0.00	0.00	0.00
12,000.0	89.53	359.83	9,679.1	2,478.4	-79.2	2,479.0	0.00	0.00	0.00
12,100.0	89.53	359.83	9,679.9	2,578.4	-79.5	2,579.0	0.00	0.00	0.00
12,200.0	89.53	359.83	9,680.8	2,678.4	-79.8	2,679.0	0.00	0.00	0.00
12,300.0	89.53	359.83	9,681.6	2,778.4	-80.1	2,779.0	0.00	0.00	0.00
12,400.0	89.53	359.83	9,682.4	2,878.4	-80.4	2,879.0	0.00	0.00	0.00
12,500.0	89.53	359.83	9,683.2	2,978.4	-80.7	2,979.0	0.00	0.00	0.00
12,600.0	89.53	359.83	9,684.1	3,078.4	-80.9	3,079.0	0.00	0.00	0.00
12,700.0	89.53	359.83	9,684.9	3,178.4	-81.2	3,179.0	0.00	0.00	0.00
12,800.0	89.53	359.83	9,685.7	3,278.4	-81.5	3,279.0	0.00	0.00	0.00
12,900.0	89.53	359.83	9,686.6	3,378.4	-81.8	3,378.9	0.00	0.00	0.00
13,000.0	89.53	359.83	9,687.4	3,478.4	-82.1	3,478.9	0.00	0.00	0.00
13,100.0	89.53	359.83	9,688.2	3,578.4	-82.4	3,578.9	0.00	0.00	0.00
13,200.0	89.53	359.83	9,689.0	3,678.3	-82.7	3,678.9	0.00	0.00	0.00
13,300.0	89.53	359.83	9,689.9	3,778.3	-83.0	3,778.9	0.00	0.00	0.00
13,400.0	89.53	359.83	9,690.7	3,878.3	-83.3	3,878.9	0.00	0.00	0.00
13,500.0	89.53	359.83	9,691.5	3,978.3	-83.6	3,978.9	0.00	0.00	0.00
13,600.0	89.53	359.83	9,692.3	4,078.3	-83.8	4,078.9	0.00	0.00	0.00
13,700.0	89.53	359.83	9,693.2	4,178.3	-84.1	4,178.9	0.00	0.00	0.00
13,800.0	89.53	359.83	9,694.0	4,278.3	-84.4	4,278.9	0.00	0.00	0.00
13,900.0	89.53	359.83	9,694.8	4,378.3	-84.7	4,378.9	0.00	0.00	0.00
14,000.0	89.53	359.83	9,695.6	4,478.3	-85.0	4,478.9	0.00	0.00	0.00
14,100.0	89.53	359.83	9,696.5	4,578.3	-85.3	4,578.9	0.00	0.00	0.00
14,200.0	89.53	359.83	9,697.3	4,678.3	-85.6	4,678.9	0.00	0.00	0.00
14,300.0	89.53	359.83	9,698.1	4,778.3	-85.9	4,778.9	0.00	0.00	0.00
14,400.0	89.53	359.83	9,698.9	4,878.3	-86.2	4,878.9	0.00	0.00	0.00
14,500.0	89.53	359.83	9,699.8	4,978.3	-86.4	4,978.9	0.00	0.00	0.00
14,600.0	89.53	359.83	9,700.6	5,078.3	-86.7	5,078.9	0.00	0.00	0.00
14,700.0	89.53	359.83	9,701.4	5,178.3	-87.0	5,178.9	0.00	0.00	0.00
14,800.0	89.53	359.83	9,702.3	5,278.3	-87.3	5,278.9	0.00	0.00	0.00
14,900.0	89.53	359.83	9,703.1	5,378.3	-87.6	5,378.8	0.00	0.00	0.00
15,000.0	89.53	359.83	9,703.9	5,478.3	-87.9	5,478.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,100.0	89.53	359.83	9,704.7	5,578.3	-88.2	5,578.8	0.00	0.00	0.00
15,200.0	89.53	359.83	9,705.6	5,678.3	-88.5	5,678.8	0.00	0.00	0.00
15,300.0	89.53	359.83	9,706.4	5,778.3	-88.8	5,778.8	0.00	0.00	0.00
15,400.0	89.53	359.83	9,707.2	5,878.3	-89.1	5,878.8	0.00	0.00	0.00
15,500.0	89.53	359.83	9,708.0	5,978.3	-89.3	5,978.8	0.00	0.00	0.00
15,600.0	89.53	359.83	9,708.9	6,078.3	-89.6	6,078.8	0.00	0.00	0.00
15,700.0	89.53	359.83	9,709.7	6,178.3	-89.9	6,178.8	0.00	0.00	0.00
15,800.0	89.53	359.83	9,710.5	6,278.2	-90.2	6,278.8	0.00	0.00	0.00
15,900.0	89.53	359.83	9,711.3	6,378.2	-90.5	6,378.8	0.00	0.00	0.00
16,000.0	89.53	359.83	9,712.2	6,478.2	-90.8	6,478.8	0.00	0.00	0.00
16,100.0	89.53	359.83	9,713.0	6,578.2	-91.1	6,578.8	0.00	0.00	0.00
16,200.0	89.53	359.83	9,713.8	6,678.2	-91.4	6,678.8	0.00	0.00	0.00
16,300.0	89.53	359.83	9,714.6	6,778.2	-91.7	6,778.8	0.00	0.00	0.00
16,400.0	89.53	359.83	9,715.5	6,878.2	-91.9	6,878.8	0.00	0.00	0.00
16,500.0	89.53	359.83	9,716.3	6,978.2	-92.2	6,978.8	0.00	0.00	0.00
16,600.0	89.53	359.83	9,717.1	7,078.2	-92.5	7,078.8	0.00	0.00	0.00
16,700.0	89.53	359.83	9,718.0	7,178.2	-92.8	7,178.8	0.00	0.00	0.00
16,800.0	89.53	359.83	9,718.8	7,278.2	-93.1	7,278.7	0.00	0.00	0.00
16,900.0	89.53	359.83	9,719.6	7,378.2	-93.4	7,378.7	0.00	0.00	0.00
17,000.0	89.53	359.83	9,720.4	7,478.2	-93.7	7,478.7	0.00	0.00	0.00
17,100.0	89.53	359.83	9,721.3	7,578.2	-94.0	7,578.7	0.00	0.00	0.00
17,200.0	89.53	359.83	9,722.1	7,678.2	-94.3	7,678.7	0.00	0.00	0.00
17,300.0	89.53	359.83	9,722.9	7,778.2	-94.6	7,778.7	0.00	0.00	0.00
17,400.0	89.53	359.83	9,723.7	7,878.2	-94.8	7,878.7	0.00	0.00	0.00
17,500.0	89.53	359.83	9,724.6	7,978.2	-95.1	7,978.7	0.00	0.00	0.00
17,600.0	89.53	359.83	9,725.4	8,078.2	-95.4	8,078.7	0.00	0.00	0.00
17,700.0	89.53	359.83	9,726.2	8,178.2	-95.7	8,178.7	0.00	0.00	0.00
17,800.0	89.53	359.83	9,727.0	8,278.2	-96.0	8,278.7	0.00	0.00	0.00
17,900.0	89.53	359.83	9,727.9	8,378.2	-96.3	8,378.7	0.00	0.00	0.00
18,000.0	89.53	359.83	9,728.7	8,478.2	-96.6	8,478.7	0.00	0.00	0.00
18,100.0	89.53	359.83	9,729.5	8,578.2	-96.9	8,578.7	0.00	0.00	0.00
18,200.0	89.53	359.83	9,730.4	8,678.2	-97.2	8,678.7	0.00	0.00	0.00
18,300.0	89.53	359.83	9,731.2	8,778.2	-97.5	8,778.7	0.00	0.00	0.00
18,400.0	89.53	359.83	9,732.0	8,878.1	-97.7	8,878.7	0.00	0.00	0.00
18,500.0	89.53	359.83	9,732.8	8,978.1	-98.0	8,978.7	0.00	0.00	0.00
18,600.0	89.53	359.83	9,733.7	9,078.1	-98.3	9,078.7	0.00	0.00	0.00
18,700.0	89.53	359.83	9,734.5	9,178.1	-98.6	9,178.6	0.00	0.00	0.00
18,800.0	89.53	359.83	9,735.3	9,278.1	-98.9	9,278.6	0.00	0.00	0.00
18,900.0	89.53	359.83	9,736.1	9,378.1	-99.2	9,378.6	0.00	0.00	0.00
19,000.0	89.53	359.83	9,737.0	9,478.1	-99.5	9,478.6	0.00	0.00	0.00
19,100.0	89.53	359.83	9,737.8	9,578.1	-99.8	9,578.6	0.00	0.00	0.00
19,200.0	89.53	359.83	9,738.6	9,678.1	-100.1	9,678.6	0.00	0.00	0.00
19,300.0	89.53	359.83	9,739.4	9,778.1	-100.3	9,778.6	0.00	0.00	0.00
19,400.0	89.53	359.83	9,740.3	9,878.1	-100.6	9,878.6	0.00	0.00	0.00
19,500.0	89.53	359.83	9,741.1	9,978.1	-100.9	9,978.6	0.00	0.00	0.00
19,600.0	89.53	359.83	9,741.9	10,078.1	-101.2	10,078.6	0.00	0.00	0.00
19,700.0	89.53	359.83	9,742.7	10,178.1	-101.5	10,178.6	0.00	0.00	0.00
19,800.0	89.53	359.83	9,743.6	10,278.1	-101.8	10,278.6	0.00	0.00	0.00
19,900.0	89.53	359.83	9,744.4	10,378.1	-102.1	10,378.6	0.00	0.00	0.00
20,000.0	89.53	359.83	9,745.2	10,478.1	-102.4	10,478.6	0.00	0.00	0.00
20,100.0	89.53	359.83	9,746.1	10,578.1	-102.7	10,578.6	0.00	0.00	0.00
20,200.0	89.53	359.83	9,746.9	10,678.1	-103.0	10,678.6	0.00	0.00	0.00
20,300.0	89.53	359.83	9,747.7	10,778.1	-103.2	10,778.6	0.00	0.00	0.00
20,400.0	89.53	359.83	9,748.5	10,878.1	-103.5	10,878.6	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,500.0	89.53	359.83	9,749.4	10,978.1	-103.8	10,978.6	0.00	0.00	0.00	
20,600.0	89.53	359.83	9,750.2	11,078.1	-104.1	11,078.6	0.00	0.00	0.00	
20,700.0	89.53	359.83	9,751.0	11,178.1	-104.4	11,178.5	0.00	0.00	0.00	
20,800.0	89.53	359.83	9,751.8	11,278.1	-104.7	11,278.5	0.00	0.00	0.00	
20,900.0	89.53	359.83	9,752.7	11,378.1	-105.0	11,378.5	0.00	0.00	0.00	
21,000.0	89.53	359.83	9,753.5	11,478.0	-105.3	11,478.5	0.00	0.00	0.00	
21,100.0	89.53	359.83	9,754.3	11,578.0	-105.6	11,578.5	0.00	0.00	0.00	
21,200.0	89.53	359.83	9,755.1	11,678.0	-105.8	11,678.5	0.00	0.00	0.00	
21,300.0	89.53	359.83	9,756.0	11,778.0	-106.1	11,778.5	0.00	0.00	0.00	
21,400.0	89.53	359.83	9,756.8	11,878.0	-106.4	11,878.5	0.00	0.00	0.00	
21,500.0	89.53	359.83	9,757.6	11,978.0	-106.7	11,978.5	0.00	0.00	0.00	
21,600.0	89.53	359.83	9,758.4	12,078.0	-107.0	12,078.5	0.00	0.00	0.00	
21,666.8	89.53	359.83	9,759.0	12,144.8	-107.2	12,145.3	0.00	0.00	0.00	
Start 130.0 hold at 21666.8 MD										
21,700.0	89.53	359.83	9,759.3	12,178.0	-107.3	12,178.5	0.00	0.00	0.00	
21,796.8	89.53	359.83	9,760.1	12,274.8	-107.6	12,275.3	0.00	0.00	0.00	
TD at 21796.8										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
(702H) KOP BOX: 15'N , - hit/miss target - Shape	0.00	0.00	8,999.0	-60.0	-72.0	364,106.50	586,769.50	32° 0' 2.641 N	104° 3' 12.331 W	
- plan misses target center by 0.3usft at 9003.1usft MD (8999.0 TVD, -60.3 N, -71.9 E)										
- Rectangle (sides W40.0 H30.0 D0.0)										
FTP (KEG SHELL FED C - plan misses target center by 177.4usft at 9590.0usft MD (9540.3 TVD, 98.6 N, -72.3 E) - Circle (radius 50.0)	0.00	0.00	9,662.0	-30.3	-65.9	364,136.20	586,775.60	32° 0' 2.934 N	104° 3' 12.259 W	
PPP2 (KEG SHELL 702I - plan misses target center by 8.2usft at 11454.2usft MD (9674.6 TVD, 1932.6 N, -77.6 E) - Point	0.00	0.00	9,681.0	1,932.6	-72.5	366,099.10	586,769.00	32° 0' 22.361 N	104° 3' 12.277 W	
PPP3 (KEG SHELL 702I - plan misses target center by 7.4usft at 16711.6usft MD (9718.1 TVD, 7189.9 N, -92.9 E) - Point	0.00	0.00	9,725.0	7,189.8	-90.4	371,356.30	586,751.10	32° 1' 14.389 N	104° 3' 12.326 W	
PPP4 (KEG SHELL 702I - plan misses target center by 2.2usft at 19262.2usft MD (9739.1 TVD, 9740.3 N, -100.2 E) - Point	0.00	0.01	9,741.0	9,740.3	-99.0	373,906.80	586,742.50	32° 1' 39.631 N	104° 3' 12.349 W	
PBHL (KEG SHELL FED - plan misses target center by 1.1usft at 21796.8usft MD (9760.1 TVD, 12274.8 N, -107.6 E) - Rectangle (sides W100.0 H12,275.0 D20.0)	-0.47	180.17	9,759.0	12,274.8	-107.7	376,441.30	586,733.80	32° 2' 4.714 N	104° 3' 12.374 W	
LTP (KEG SHELL FED C - plan hits target center - Circle (radius 50.0)	90.00	359.86	9,759.0	12,144.8	-107.2	376,311.30	586,734.30	32° 2' 3.427 N	104° 3' 12.372 W	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well KEG SHELL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB=32 @ 3022.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	KB=32 @ 3022.3usft
Site:	KEG SHELL FED COM PROJECT	North Reference:	Grid
Well:	KEG SHELL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP2		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
21,796.8	9,760.1	5-1/2" Production Casing	5-1/2	6-3/4	

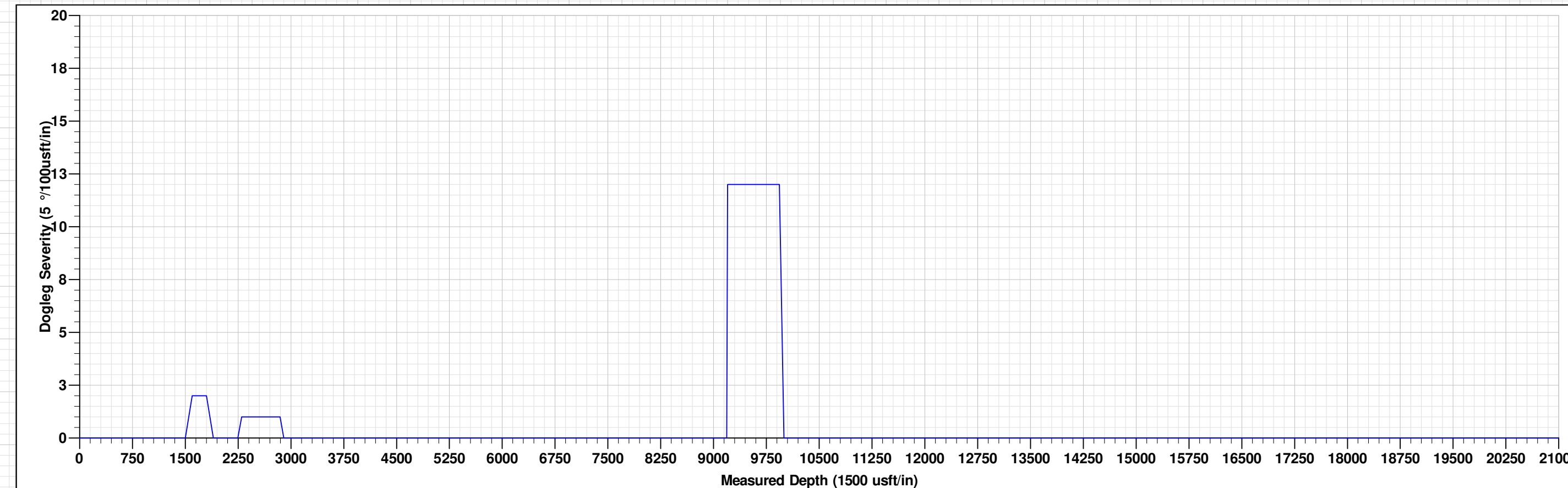
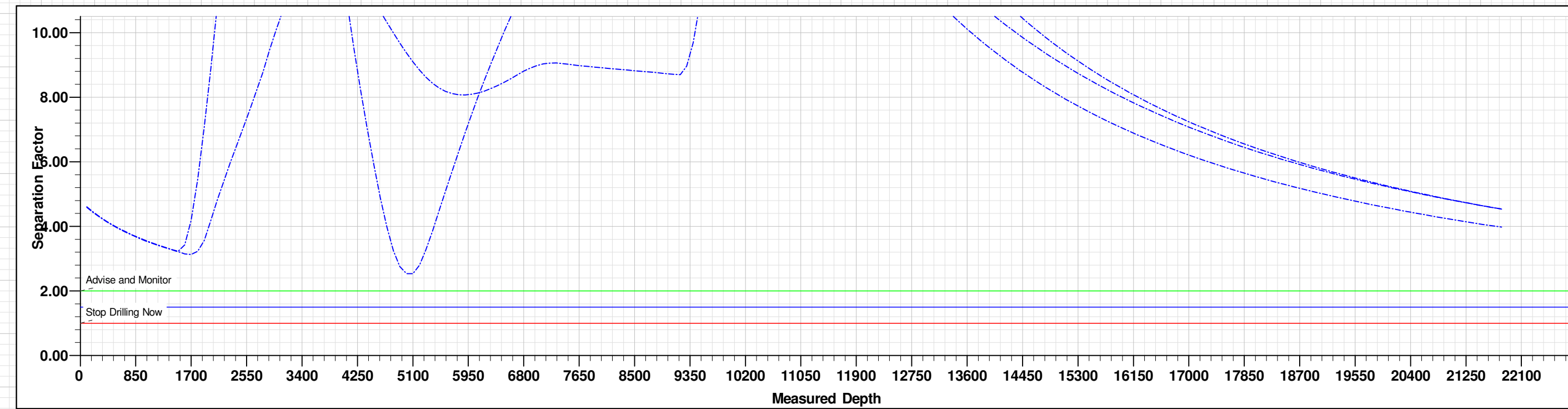
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
1,800.0	1,799.5	-10.1	-12.0	Start 447.0 hold at 1800.0 MD	
2,247.0	2,244.0	-40.1	-47.8	Start DLS 1.00 TFO 180.00	
2,847.0	2,842.9	-60.3	-71.9	Start 6341.7 hold at 2847.0 MD	
9,188.7	9,184.6	-60.3	-71.9	Start DLS 12.00 TFO 359.83	
9,934.7	9,662.0	413.2	-73.2	Start 11732.0 hold at 9934.7 MD	
21,666.8	9,759.0	12,144.8	-107.2	Start 130.0 hold at 21666.8 MD	
21,796.8	9,760.1	12,274.8	-107.6	TD at 21796.8	

WELL DETAILS: KEG SHELL FEDERAL COM #702H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	364166.50	586841.50	32° 0' 3.232 N	104° 3' 11.493 W

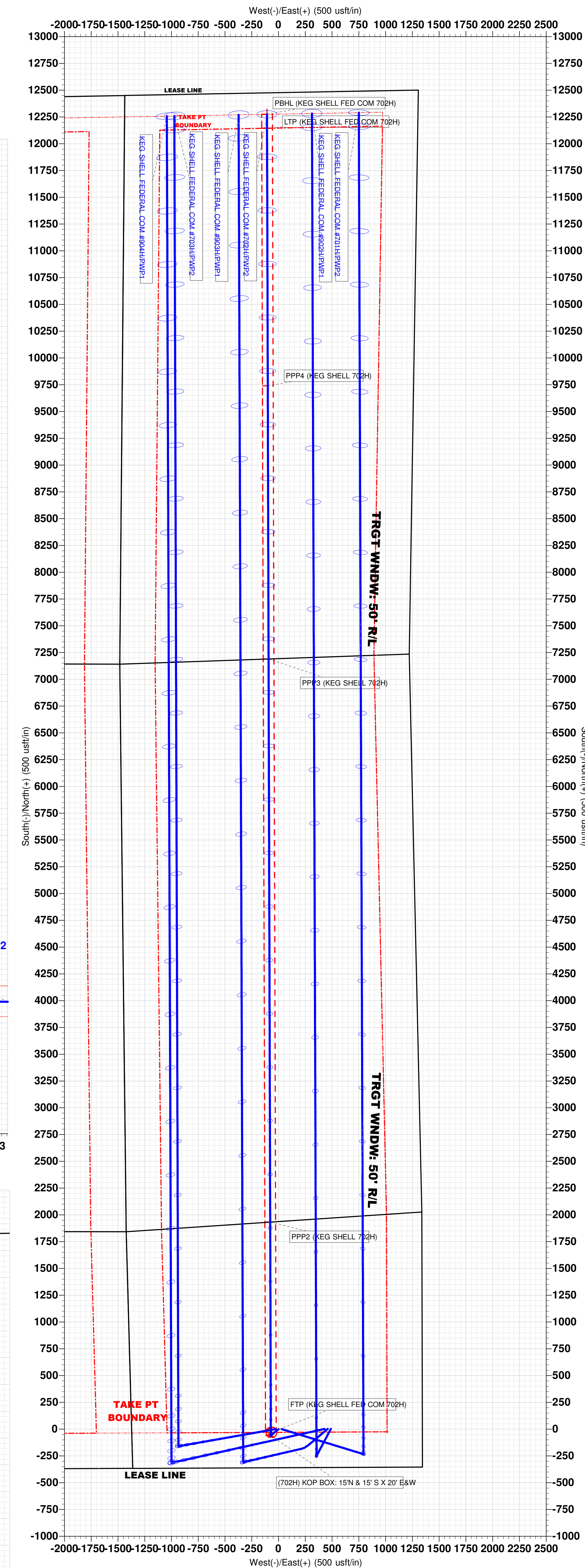
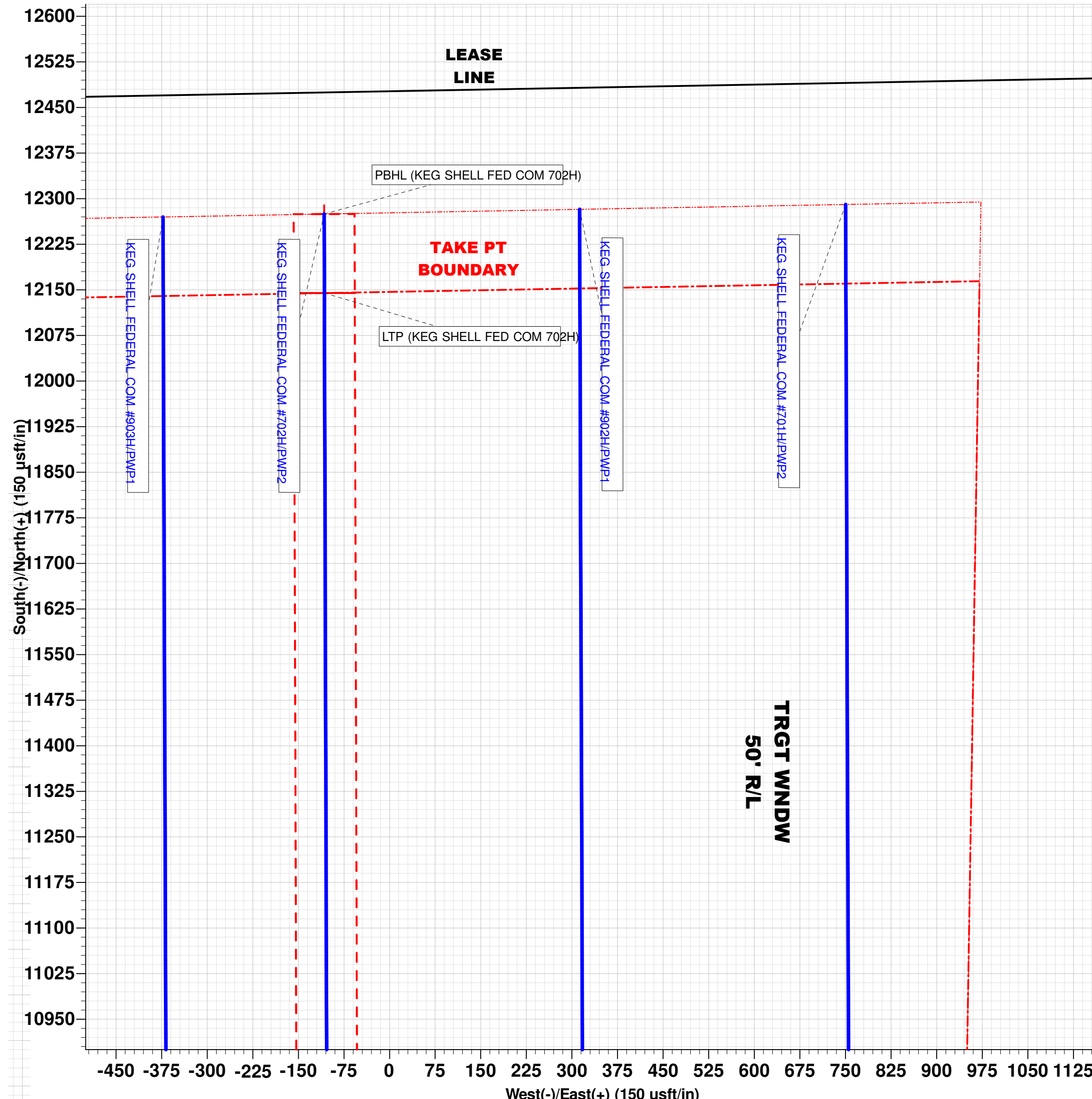
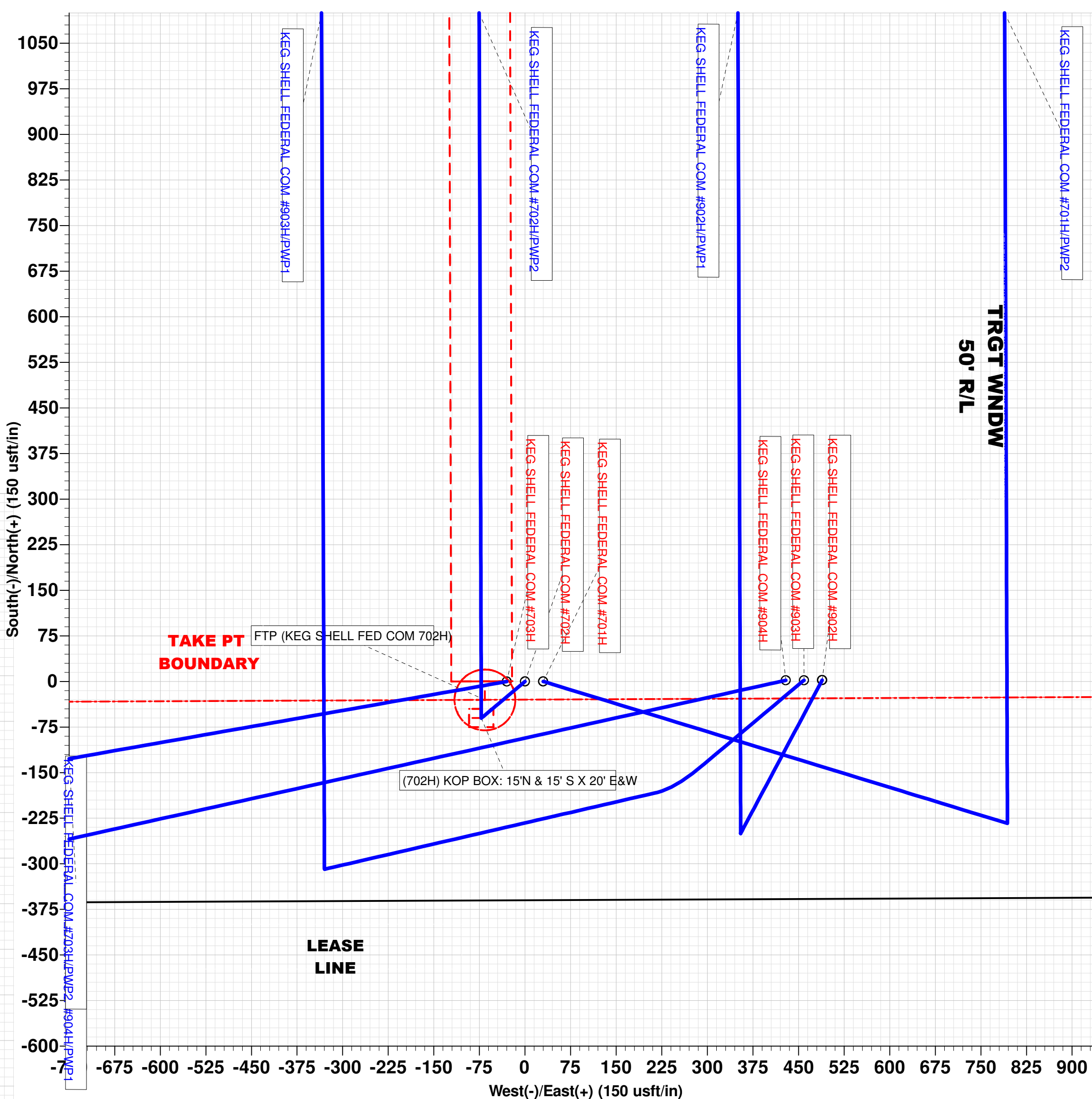
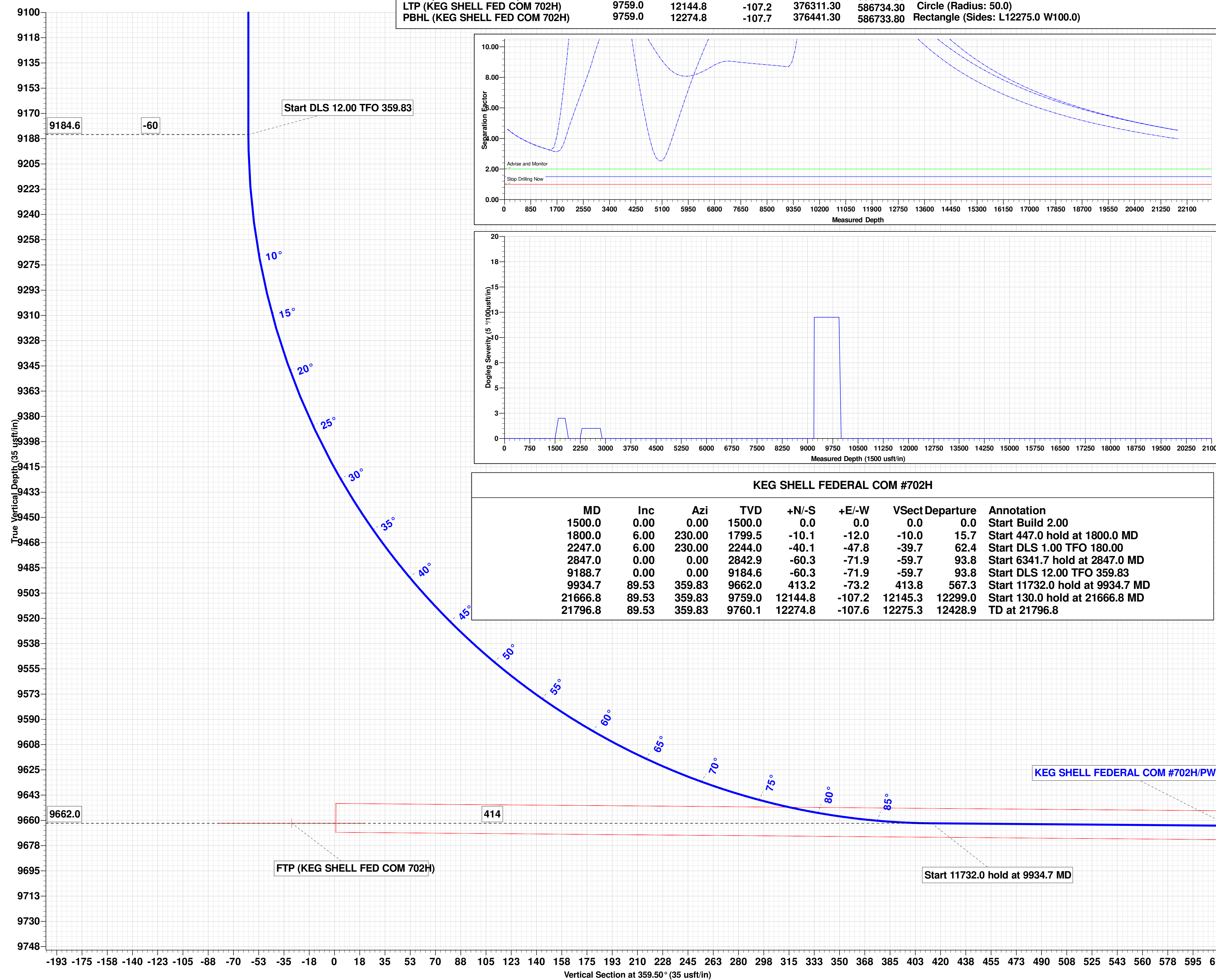
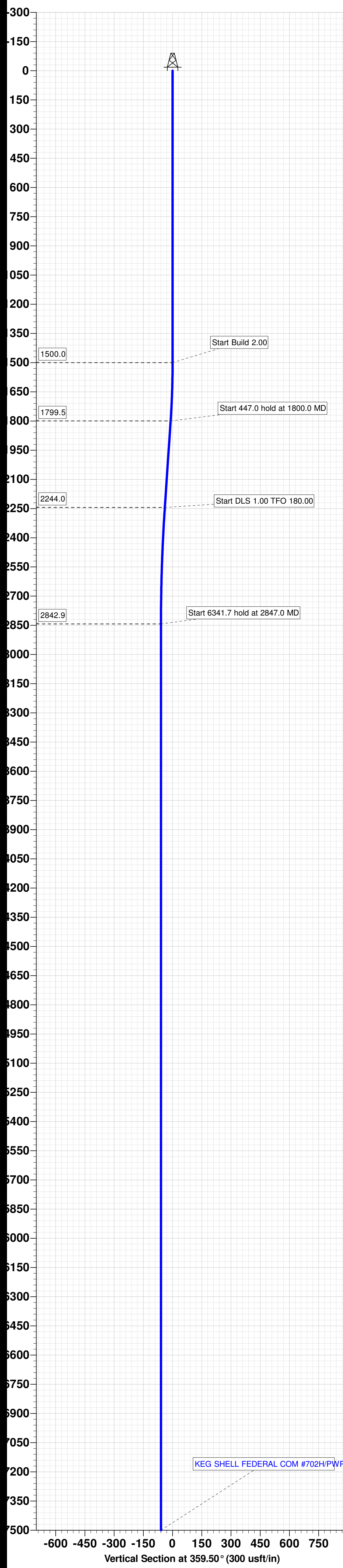
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
(702H) KOP BOX: 15'N & 15' S X 20' E&W	8999.0	-60.0	-72.0	364106.50	586769.50	Rectangle (Sides: L30.0 W40.0)
FTP (KEG SHELL FED COM 702H)	9662.0	-30.3	-65.9	364136.20	586775.60	Circle (Radius: 50.0)
PPP2 (KEG SHELL 702H)	9681.0	1932.6	-72.5	366099.10	586769.10	Point
PPP3 (KEG SHELL 702H)	9725.0	7189.8	-90.4	371356.30	586751.10	Point
PPP4 (KEG SHELL 702H)	9741.0	9740.3	-99.0	373906.80	586742.50	Point
LTP (KEG SHELL FED COM 702H)	9759.0	12144.8	-107.2	376311.30	586734.30	Circle (Radius: 50.0)
PBHL (KEG SHELL FED COM 702H)	9759.0	12274.8	-107.7	376441.30	586733.80	Rectangle (Sides: L12275.0 W100.0)



KEG SHELL FEDERAL COM #702H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
1800.0	6.00	230.00	1799.5	-10.1	-12.0	-10.0	15.7	Start 447.0 hold at 1800.0 MD
2247.0	6.00	230.00	2244.0	-40.1	-47.8	-39.7	62.4	Start DLS 1.00 TFO 180.00
2847.0	0.00	0.00	2842.9	-60.3	-71.9	-59.7	93.8	Start 6341.7 hold at 2847.0 MD
9188.7	0.00	0.00	9184.6	-60.3	-71.9	-59.7	93.8	Start DLS 12.00 TFO 359.83
9934.7	89.53	359.83	9662.0	413.2	-73.2	413.8	567.3	Start 11732.0 hold at 9934.7 MD
21666.8	89.53	359.83	9759.0	12144.8	-107.2	12145.3	12299.0	Start 130.0 hold at 21666.8 MD
21796.8	89.53	359.83	9760.1	12274.8	-107.6	12275.3	12428.9	TD at 21796.8



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 240838

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 240838
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Original COA's still apply.	11/1/2023