

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Rec'd 10/28/2020 - NMOC

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.
NMNM138834

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
ROCK JELLY FEDERAL COM 704H9. API Well No.
30-015-47580-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC
Contact: STAN WAGNER3a. Address
600 W ILLINOIS AVENUE
MIDLAND, TX 79701
3b. Phone No. (include area code)
Ph: 432.683.74434. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 3 T26S R29E NENW 350FNL 1500FWL
32.078003 N Lat, 103.975868 W Lon

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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 determined that the site is ready for final inspection.

COG Operating requests an amendment to our approved APD for this well to reflect a change in BHL and lateral length as attached.

Change BHL to: 200' FSL & 1530' FEL SESW 15-26S-29E Eddy Co., NM

Entered - KMS NMOC

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #535479 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/27/2020 (21PP0366SE)**

Name (Printed/Typed) STAN WAGNER

Title

Signature (Electronic Submission)

Date 10/27/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JENNIFER SANCHEZ

Title PETROLEUM ENGINEER

Date 10/28/2020

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #535479

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM13997	NMNM138834
Agreement:		
Operator:	COG OPERATING LLC ATTN STAN WAGNER 600 WEST ILLINOIS AVE MIDLAND, TX 79701 Ph: 432-253-9685	COG OPERATING LLC 600 W ILLINOIS AVENUE MIDLAND, TX 79701 Ph: 432.685.4385
Admin Contact:	STAN WAGNER REGULATORY ADVISOR E-Mail: swagner@concho.com Ph: 432-253-9685	STAN WAGNER Ph: 432.683.7443
Tech Contact:	STAN WAGNER REGULATORY ADVISOR E-Mail: swagner@concho.com Ph: 432-253-9685	STAN WAGNER Ph: 432.683.7443
Location: State: County:	NM EDDY	NM EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	ROCK JELLY FEDERAL COM 704H Sec 3 T26S R29E Mer NMP NENE 350FNL 1500FWL	ROCK JELLY FEDERAL COM 704H Sec 3 T26S R29E NENW 350FNL 1500FWL 32.078003 N Lat, 103.975868 W Lon

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-0161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 86210
Phone: (505) 746-1283 Fax: (505) 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) 478-3460 Fax: (505) 478-3462

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 30-015-47580	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329756	Property Name ROCK JELLY FEDERAL COM	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2978.4'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	3	26-S	29-E		350	NORTH	1500	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	26-S	29-E		200	SOUTH	1530	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
1920			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

FTP
330' FNL & 1530' FWL
Y=392318.6 N
X=652084.0 E
LAT.=32.078059° N
LONG.=103.975771° W
GRID AZ. TO FTP
55°34'23"

LEASE X-ING
LAT.=32.075259° N
LONG.=103.975767° W

LEASE X-ING
LAT.=32.064303° N
LONG.=103.975750° W

LEASE X-ING
LAT.=32.056970° N
LONG.=103.975714° W

LEASE X-ING
LAT.=32.049632° N
LONG.=103.975729° W

LTP
330' FSL & 1528' FWL
Y=377042.5 N
X=652153.9 E
LAT.=32.036066° N
LONG.=103.975708° W

GRID AZ. 179°44'16"
HORZ. DIST. 15406.4'

SECTION 3
SECTION 10
SECTION 10
SECTION 15

1500' 350' S.L.
1530' 200' B.H.

NAD 83 NME
SURFACE LOCATION
Y=392298.5 N
X=652054.6 E
LAT.=32.078004° N
LONG.=103.975866° W

POINT LEGEND	
1	Y=392642.4 N X=650543.2 E
2	Y=389981.5 N X=650625.9 E
3	Y=387320.6 N X=650708.8 E
4	Y=384659.4 N X=650689.8 E
5	Y=381998.4 N X=650871.1 E
6	Y=376782.3 N X=650623.2 E
7	Y=376657.8 N X=653341.0 E
8	Y=381960.3 N X=653363.4 E
9	Y=392653.1 N X=653204.1 E

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=376912.3 N
X=652154.5 E
LAT.=32.035708° N
LONG.=103.975708° W

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 10/27/2020
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 11, 2019
Date of Survey

Signature & Seal of Professional Surveyor
Chad L. Harcrow 5/27/20
Certificate No. CHAD HARCROW 17777
W.O. # 20-740 DRAWN BY: DS

Intent ☒ As Drilled ☐

API # 30-015-47580			
Operator Name: COG Operating LLC		Property Name: Rock Jelly Federal Com	Well Number 704H

Kick Off Point (KOP)

UL C	Section 3	Township 26S	Range 29E	Lot	Feet	From N/S	Feet	From E/W	County Eddy
Latitude					Longitude				NAD 83

First Take Point (FTP)

UL C	Section 3	Township 26S	Range 29E	Lot	Feet 330	From N/S North	Feet 1530	From E/W West	County Eddy
Latitude 32.078059					Longitude -103.975771				NAD NAD 83

Last Take Point (LTP)

UL N	Section 15	Township 26S	Range 29E	Lot	Feet 330	From N/S South	Feet 1528	From E/W West	County Eddy
Latitude 32.036066					Longitude -103.975708				NAD NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ No

Is this well an infill well? ☐ Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-47581			
Operator Name: COG Operating LLC		Property Name: Rock Jelly Federal Com	Well Number 703H

KZ 06/29/2018

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #704H

OWB

PWP2

Anticollision Report

02 July, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference	PWP2
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 1,000.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	7/2/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,685.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,685.0	25,649.5	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ROCK JELLY FEDERAL PROJECT (ATLAS 2629)						
JR'S HORZ FEDERAL COM #3H - OWB - ACTUAL WEL						Out of range
ROCK JELLY FED COM #702H - OWB - PWP2						Out of range
ROCK JELLY FED COM #703H - OWB - PWP2	2,416.6	2,416.8	30.1	17.7	2.433	CC
ROCK JELLY FED COM #703H - OWB - PWP2	2,500.0	2,500.0	30.1	17.4	2.373	ES, SF
ROCK JELLY FED COM #705H - OWB - PWP2	2,500.0	2,499.9	30.0	17.3	2.365	CC, ES, SF
Surface Wells						
PECOSEASTFEDERAL223H - PECOSEASTFEDERAL2						Out of range
PECOSEASTFEDERAL229H - PECOSEASTFEDERAL2						Out of range

Offset Design		ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP2										Offset Site Error:		0.0 usft
Survey Program:		0-MWD+IFR1+FDIR										Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.2	0.2	3.0	3.0	89.62	0.2	30.1	30.1					
100.0	100.0	100.2	100.2	3.0	3.0	89.62	0.2	30.1	30.1	24.1	6.00	5.014		
200.0	200.0	200.2	200.2	3.0	3.0	89.62	0.2	30.1	30.1	24.1	6.04	4.983		
300.0	300.0	300.2	300.2	3.0	3.1	89.62	0.2	30.1	30.1	24.0	6.12	4.917		
400.0	400.0	400.2	400.2	3.0	3.2	89.62	0.2	30.1	30.1	23.9	6.24	4.822		
500.0	500.0	500.2	500.2	3.1	3.4	89.62	0.2	30.1	30.1	23.7	6.40	4.704		
600.0	600.0	600.2	600.2	3.1	3.6	89.62	0.2	30.1	30.1	23.5	6.59	4.570		
700.0	700.0	700.2	700.2	3.1	3.8	89.62	0.2	30.1	30.1	23.3	6.80	4.425		
800.0	800.0	800.2	800.2	3.2	4.0	89.62	0.2	30.1	30.1	23.1	7.04	4.275		
900.0	900.0	900.2	900.2	3.2	4.2	89.62	0.2	30.1	30.1	22.8	7.30	4.124		
1,000.0	1,000.0	1,000.2	1,000.2	3.2	4.5	89.62	0.2	30.1	30.1	22.5	7.57	3.975		
1,100.0	1,100.0	1,100.2	1,100.2	3.3	4.8	89.62	0.2	30.1	30.1	22.2	7.86	3.829		
1,200.0	1,200.0	1,200.2	1,200.2	3.4	5.1	89.62	0.2	30.1	30.1	21.9	8.16	3.687		
1,300.0	1,300.0	1,300.2	1,300.2	3.4	5.4	89.62	0.2	30.1	30.1	21.6	8.47	3.552		
1,400.0	1,400.0	1,400.2	1,400.2	3.5	5.7	89.62	0.2	30.1	30.1	21.3	8.80	3.422		
1,500.0	1,500.0	1,500.2	1,500.2	3.5	6.0	89.62	0.2	30.1	30.1	21.0	9.12	3.299		
1,600.0	1,600.0	1,600.2	1,600.2	3.6	6.3	89.62	0.2	30.1	30.1	20.6	9.46	3.182		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,700.0	1,700.0	1,700.2	1,700.2	3.7	6.6	89.62	0.2	30.1	30.1	20.3	9.80	3.072		
1,800.0	1,800.0	1,800.2	1,800.2	3.8	6.9	89.62	0.2	30.1	30.1	20.0	10.15	2.967		
1,900.0	1,900.0	1,900.2	1,900.2	3.9	7.2	89.62	0.2	30.1	30.1	19.6	10.50	2.867		
2,000.0	2,000.0	2,000.2	2,000.2	3.9	7.6	89.62	0.2	30.1	30.1	19.2	10.85	2.773		
2,100.0	2,100.0	2,100.2	2,100.2	4.0	7.9	89.62	0.2	30.1	30.1	18.9	11.21	2.684		
2,200.0	2,200.0	2,200.2	2,200.2	4.1	8.2	89.62	0.2	30.1	30.1	18.5	11.58	2.600		
2,300.0	2,300.0	2,300.2	2,300.2	4.2	8.6	89.62	0.2	30.1	30.1	18.2	11.94	2.520		
2,400.0	2,400.0	2,400.2	2,400.2	4.3	8.9	89.62	0.2	30.1	30.1	17.8	12.31	2.445		
2,416.6	2,416.6	2,416.8	2,416.8	4.3	9.0	89.62	0.2	30.1	30.1	17.7	12.37	2.433 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	89.62	0.2	30.1	30.1	17.4	12.68	2.373 ES, SF		
2,600.0	2,600.0	2,599.1	2,599.1	4.5	9.6	87.44	0.2	31.8	31.7	18.7	13.04	2.431		
2,700.0	2,699.8	2,698.3	2,698.2	4.6	9.9	95.15	0.2	36.6	36.6	23.2	13.43	2.724		
2,800.0	2,799.6	2,797.9	2,797.7	4.7	10.2	103.19	0.2	41.8	42.8	28.9	13.88	3.083		
2,900.0	2,899.4	2,897.6	2,897.2	4.8	10.5	109.11	0.2	47.0	49.6	35.3	14.35	3.459		
3,000.0	2,999.1	2,997.3	2,996.7	4.9	10.9	113.57	0.2	52.2	56.8	42.0	14.81	3.839		
3,100.0	3,098.9	3,096.9	3,096.2	5.0	11.2	117.01	0.2	57.4	64.3	49.1	15.27	4.214		
3,200.0	3,198.6	3,196.6	3,195.7	5.1	11.5	119.72	0.2	62.6	72.0	56.3	15.72	4.580		
3,300.0	3,298.4	3,296.2	3,295.3	5.2	11.9	121.91	0.2	67.8	79.8	63.6	16.18	4.934		
3,400.0	3,398.1	3,395.9	3,394.8	5.3	12.2	123.71	0.2	73.1	87.7	71.1	16.62	5.276		
3,500.0	3,497.9	3,495.5	3,494.3	5.4	12.6	125.21	0.2	78.3	95.7	78.6	17.07	5.604		
3,600.0	3,597.6	3,595.2	3,593.8	5.5	12.9	126.47	0.2	83.5	103.7	86.2	17.52	5.920		
3,700.0	3,697.4	3,694.8	3,693.3	5.6	13.2	127.56	0.2	88.7	111.8	93.8	17.96	6.222		
3,800.0	3,797.2	3,794.5	3,792.8	5.7	13.6	128.50	0.2	93.9	119.9	101.5	18.41	6.511		
3,900.0	3,896.9	3,894.1	3,892.4	5.8	13.9	129.32	0.2	99.1	128.0	109.1	18.86	6.789		
4,000.0	3,996.7	3,993.8	3,991.9	5.9	14.3	130.04	0.2	104.4	136.2	116.9	19.30	7.054		
4,100.0	4,096.4	4,093.4	4,091.4	6.1	14.6	130.68	0.2	109.6	144.3	124.6	19.75	7.309		
4,200.0	4,196.2	4,193.1	4,190.9	6.2	14.9	131.25	0.2	114.8	152.5	132.3	20.19	7.553		
4,300.0	4,295.9	4,292.7	4,290.4	6.3	15.3	131.77	0.2	120.0	160.7	140.1	20.64	7.787		
4,400.0	4,395.7	4,392.4	4,389.9	6.4	15.6	132.23	0.2	125.2	168.9	147.8	21.09	8.011		
4,500.0	4,495.5	4,492.0	4,489.5	6.5	16.0	132.65	0.2	130.4	177.2	155.6	21.54	8.226		
4,600.0	4,595.2	4,591.7	4,589.0	6.6	16.3	133.03	0.2	135.6	185.4	163.4	21.99	8.432		
4,700.0	4,695.0	4,691.4	4,688.5	6.7	16.7	133.38	0.2	140.9	193.6	171.2	22.44	8.631		
4,800.0	4,794.7	4,791.0	4,788.0	6.9	17.0	133.70	0.2	146.1	201.9	179.0	22.89	8.821		
4,900.0	4,894.5	4,890.7	4,887.5	7.0	17.4	134.00	0.2	151.3	210.1	186.8	23.34	9.004		
5,000.0	4,994.2	4,990.3	4,987.0	7.1	17.7	134.28	0.2	156.5	218.4	194.6	23.79	9.180		
5,100.0	5,094.0	5,090.0	5,086.6	7.2	18.1	134.53	0.2	161.7	226.6	202.4	24.24	9.350		
5,200.0	5,193.7	5,189.6	5,186.1	7.3	18.4	134.77	0.2	166.9	234.9	210.2	24.69	9.513		
5,300.0	5,293.5	5,289.3	5,285.6	7.4	18.8	134.99	0.2	172.2	243.2	218.0	25.15	9.670		
5,400.0	5,393.3	5,388.9	5,385.1	7.6	19.1	135.19	0.2	177.4	251.5	225.9	25.60	9.822		
5,500.0	5,493.0	5,488.6	5,484.6	7.7	19.5	135.38	0.2	182.6	259.7	233.7	26.06	9.968		
5,600.0	5,592.8	5,588.3	5,579.1	7.8	19.8	135.36	0.2	188.8	268.8	242.3	26.48	10.151		
5,700.0	5,692.5	5,678.6	5,674.0	7.9	20.1	134.85	0.2	197.9	279.9	253.0	26.89	10.409		
5,800.0	5,792.3	5,777.9	5,772.7	8.0	20.5	134.24	0.2	208.3	291.5	264.2	27.31	10.675		
5,900.0	5,892.0	5,877.2	5,871.5	8.1	20.9	133.68	0.2	218.7	303.1	275.4	27.73	10.932		
6,000.0	5,991.8	5,976.5	5,970.2	8.3	21.2	133.16	0.2	229.1	314.8	286.7	28.15	11.183		
6,084.7	6,076.3	6,060.5	6,053.8	8.4	21.5	132.74	0.2	237.9	324.7	296.2	28.51	11.389		
6,100.0	6,091.6	6,075.7	6,069.0	8.4	21.6	132.69	0.2	239.5	326.5	297.9	28.58	11.425		
6,200.0	6,191.4	6,175.1	6,167.8	8.5	21.9	132.11	0.2	249.8	336.7	307.7	28.99	11.615		
6,284.7	6,276.1	6,259.3	6,251.5	8.6	22.2	136.56	0.2	258.6	343.6	314.3	29.32	11.720		
6,300.0	6,291.4	6,274.6	6,266.7	8.6	22.3	136.36	0.2	260.2	344.7	315.3	29.37	11.734		
6,400.0	6,391.4	6,374.0	6,365.6	8.8	22.6	135.13	0.2	270.6	352.0	322.2	29.75	11.830		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,500.0	6,491.4	6,473.5	6,464.5	8.9	23.0	133.96		0.2	281.0	359.5	329.3	30.14	11.928	
6,600.0	6,591.4	6,572.9	6,563.4	9.0	23.3	132.83		0.2	291.4	367.1	336.6	30.52	12.028	
6,700.0	6,691.4	6,672.4	6,662.3	9.1	23.7	131.74		0.2	301.8	374.8	343.9	30.90	12.130	
6,800.0	6,791.4	6,771.8	6,761.2	9.3	24.0	130.70		0.2	312.2	382.7	351.4	31.28	12.233	
6,900.0	6,891.4	6,871.3	6,860.1	9.4	24.4	129.71		0.2	322.6	390.7	359.0	31.67	12.337	
7,000.0	6,991.4	6,970.7	6,959.0	9.5	24.8	128.75		0.2	333.0	398.8	366.8	32.05	12.442	
7,100.0	7,091.4	7,070.2	7,058.0	9.6	25.1	127.83		0.2	343.4	407.1	374.6	32.44	12.547	
7,200.0	7,191.4	7,169.6	7,156.9	9.7	25.5	126.95		0.2	353.8	415.4	382.5	32.83	12.653	
7,300.0	7,291.4	7,269.1	7,255.8	9.9	25.8	126.10		0.2	364.2	423.8	390.6	33.22	12.758	
7,400.0	7,391.4	7,368.5	7,354.7	10.0	26.2	125.29		0.2	374.6	432.3	398.7	33.61	12.863	
7,500.0	7,491.4	7,468.0	7,453.6	10.1	26.6	124.50		0.2	385.0	440.9	406.9	34.00	12.968	
7,600.0	7,591.4	7,567.4	7,552.5	10.2	26.9	123.75		0.2	395.4	449.6	415.2	34.39	13.072	
7,700.0	7,691.4	7,666.9	7,651.4	10.4	27.3	123.02		0.2	405.8	458.3	423.5	34.78	13.176	
7,800.0	7,791.4	7,766.4	7,750.3	10.5	27.6	122.33		0.2	416.2	467.1	431.9	35.18	13.279	
7,900.0	7,891.4	7,865.8	7,849.2	10.6	28.0	121.65		0.2	426.6	476.0	440.4	35.57	13.381	
8,000.0	7,991.4	7,965.3	7,948.1	10.8	28.3	121.01		0.2	437.0	484.9	449.0	35.97	13.482	
8,100.0	8,091.4	8,064.7	8,047.0	10.9	28.7	120.38		0.2	447.4	493.9	457.6	36.37	13.582	
8,200.0	8,191.4	8,164.2	8,145.9	11.0	29.1	119.78		0.2	457.8	503.0	466.2	36.76	13.682	
8,300.0	8,291.4	8,263.6	8,244.8	11.1	29.4	119.20		0.2	468.1	512.1	474.9	37.16	13.780	
8,400.0	8,391.4	8,363.1	8,343.8	11.3	29.8	118.64		0.2	478.5	521.3	483.7	37.56	13.877	
8,500.0	8,491.4	8,462.5	8,442.7	11.4	30.1	118.10		0.2	488.9	530.5	492.5	37.97	13.972	
8,600.0	8,591.4	8,562.0	8,541.6	11.5	30.5	117.58		0.2	499.3	539.7	501.4	38.37	14.067	
8,700.0	8,691.4	8,661.4	8,640.5	11.6	30.9	117.07		0.2	509.7	549.0	510.3	38.77	14.161	
8,800.0	8,791.4	8,760.9	8,739.4	11.8	31.2	116.59		0.2	520.1	558.4	519.2	39.18	14.253	
8,900.0	8,891.4	8,860.3	8,838.3	11.9	31.6	116.12		0.2	530.5	567.7	528.2	39.58	14.344	
9,000.0	8,991.4	8,959.8	8,937.2	12.0	31.9	115.66		0.2	540.9	577.2	537.2	39.99	14.433	
9,100.0	9,091.4	9,059.2	9,036.1	12.1	32.3	115.22		0.2	551.3	586.6	546.2	40.39	14.522	
9,200.0	9,191.4	9,158.7	9,135.0	12.3	32.7	114.79		0.2	561.7	596.1	555.3	40.80	14.609	
9,300.0	9,291.4	9,258.1	9,233.9	12.4	33.0	114.38		0.2	572.1	605.6	564.4	41.21	14.695	
9,400.0	9,391.4	9,357.6	9,332.8	12.5	33.4	113.97		0.2	582.5	615.1	573.5	41.62	14.780	
9,500.0	9,491.4	9,457.0	9,431.7	12.7	33.7	113.58		0.2	592.9	624.7	582.7	42.03	14.863	
9,600.0	9,591.4	9,556.5	9,530.6	12.8	34.1	113.21		0.2	603.3	634.3	591.9	42.44	14.946	
9,684.6	9,676.0	9,640.6	9,614.3	12.9	34.4	112.90		0.2	612.1	642.5	599.7	42.79	15.014	
9,700.0	9,691.4	9,655.9	9,629.5	12.9	34.5	-65.24		0.2	613.7	643.9	601.1	42.81	15.042	
9,750.0	9,741.3	9,705.5	9,678.9	12.9	34.6	-65.39		0.2	618.9	647.2	604.3	42.95	15.068	
9,800.0	9,790.7	9,750.0	9,723.1	12.9	34.8	-65.95		0.2	623.5	648.9	605.8	43.08	15.063	
9,850.0	9,839.1	9,777.8	9,750.7	12.9	34.9	-66.43		-0.6	626.8	650.0	606.8	43.18	15.054	
9,900.0	9,886.4	9,800.0	9,772.6	13.0	35.0	-66.86		-2.0	629.8	651.3	608.0	43.28	15.049	
9,950.0	9,932.0	9,831.0	9,803.1	13.0	35.1	-67.61		-5.4	634.5	652.7	609.3	43.38	15.044	
10,000.0	9,975.7	9,850.0	9,821.6	13.0	35.2	-68.06		-8.2	637.8	654.5	611.0	43.50	15.045	
10,050.0	10,017.2	9,883.5	9,853.9	13.1	35.3	-69.07		-14.5	644.1	656.5	612.8	43.63	15.046	
10,100.0	10,056.0	9,900.0	9,869.6	13.1	35.3	-69.47		-18.3	647.5	659.1	615.3	43.78	15.053	
10,150.0	10,091.9	9,935.3	9,902.7	13.2	35.5	-70.69		-27.7	655.4	662.1	618.1	43.95	15.063	
10,200.0	10,124.7	9,961.0	9,926.2	13.2	35.6	-71.52		-35.7	661.6	665.8	621.6	44.15	15.079	
10,250.0	10,154.0	9,986.4	9,949.1	13.3	35.6	-72.34		-44.6	668.2	670.3	625.9	44.38	15.103	
10,300.0	10,179.7	10,011.6	9,971.3	13.3	35.7	-73.13		-54.4	675.1	675.6	631.0	44.64	15.135	
10,350.0	10,201.6	10,036.6	9,992.8	13.4	35.8	-73.88		-64.9	682.3	681.9	637.0	44.93	15.178	
10,400.0	10,219.5	10,061.4	10,013.6	13.4	35.9	-74.57		-76.2	689.7	689.3	644.0	45.24	15.234	
10,450.0	10,233.2	10,086.0	10,033.6	13.5	36.0	-75.19		-88.3	697.5	697.7	652.1	45.58	15.307	
10,500.0	10,242.7	10,110.4	10,052.8	13.5	36.1	-75.72		-101.0	705.4	707.3	661.3	45.93	15.400	
10,550.0	10,247.9	10,134.5	10,071.2	13.5	36.1	-76.15		-114.4	713.6	718.0	671.8	46.28	15.514	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design											ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - ROCK JELLY FED COM #703H - OWB - PWP2			Offset Site Error:		0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,586.8	10,249.0	10,150.0	10,082.6	13.5	36.2	-76.25	-123.3	719.0	726.8	680.2	46.55	15.614				
10,600.0	10,248.9	10,158.6	10,088.8	13.5	36.2	-76.80	-128.4	722.0	730.1	683.5	46.63	15.656				
10,700.0	10,248.5	10,212.8	10,126.0	13.6	36.4	-80.05	-162.5	741.8	759.9	712.6	47.35	16.049				
10,800.0	10,248.1	10,278.8	10,166.0	13.6	36.6	-83.47	-208.3	767.4	796.1	748.1	48.03	16.575				
10,900.0	10,247.7	10,358.5	10,206.0	13.6	36.8	-86.74	-269.0	799.9	836.3	787.7	48.68	17.179				
11,000.0	10,247.3	10,452.5	10,240.4	13.7	37.0	-89.38	-346.7	839.8	878.1	828.8	49.32	17.803				
11,100.0	10,246.9	10,558.6	10,261.5	13.7	37.3	-90.88	-439.9	885.6	919.4	869.4	49.99	18.391				
11,200.0	10,246.5	10,681.7	10,264.7	13.8	37.5	-91.07	-551.4	937.3	958.7	908.0	50.72	18.901				
11,300.0	10,246.1	10,823.7	10,264.1	14.0	37.8	-91.01	-682.7	991.4	993.9	942.4	51.56	19.279				

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-90.19	-0.1	-30.0	30.0					
100.0	100.0	99.9	99.9	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	4.998		
200.0	200.0	199.9	199.9	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.04	4.966		
300.0	300.0	299.9	299.9	3.0	3.1	-90.19	-0.1	-30.0	30.0	23.9	6.12	4.900		
400.0	400.0	399.9	399.9	3.0	3.2	-90.19	-0.1	-30.0	30.0	23.8	6.24	4.806		
500.0	500.0	499.9	499.9	3.1	3.4	-90.19	-0.1	-30.0	30.0	23.6	6.40	4.688		
600.0	600.0	599.9	599.9	3.1	3.6	-90.19	-0.1	-30.0	30.0	23.4	6.59	4.555		
700.0	700.0	699.9	699.9	3.1	3.8	-90.19	-0.1	-30.0	30.0	23.2	6.80	4.411		
800.0	800.0	799.9	799.9	3.2	4.0	-90.19	-0.1	-30.0	30.0	23.0	7.04	4.262		
900.0	900.0	899.9	899.9	3.2	4.2	-90.19	-0.1	-30.0	30.0	22.7	7.30	4.111		
1,000.0	1,000.0	999.9	999.9	3.2	4.5	-90.19	-0.1	-30.0	30.0	22.4	7.57	3.962		
1,100.0	1,100.0	1,099.9	1,099.9	3.3	4.8	-90.19	-0.1	-30.0	30.0	22.1	7.86	3.816		
1,200.0	1,200.0	1,199.9	1,199.9	3.4	5.1	-90.19	-0.1	-30.0	30.0	21.8	8.16	3.675		
1,300.0	1,300.0	1,299.9	1,299.9	3.4	5.4	-90.19	-0.1	-30.0	30.0	21.5	8.47	3.540		
1,400.0	1,400.0	1,399.9	1,399.9	3.5	5.7	-90.19	-0.1	-30.0	30.0	21.2	8.79	3.411		
1,500.0	1,500.0	1,499.9	1,499.9	3.5	6.0	-90.19	-0.1	-30.0	30.0	20.9	9.12	3.289		
1,600.0	1,600.0	1,599.9	1,599.9	3.6	6.3	-90.19	-0.1	-30.0	30.0	20.5	9.46	3.172		
1,700.0	1,700.0	1,699.9	1,699.9	3.7	6.6	-90.19	-0.1	-30.0	30.0	20.2	9.80	3.062		
1,800.0	1,800.0	1,799.9	1,799.9	3.8	6.9	-90.19	-0.1	-30.0	30.0	19.9	10.15	2.957		
1,900.0	1,900.0	1,899.9	1,899.9	3.9	7.2	-90.19	-0.1	-30.0	30.0	19.5	10.50	2.858		
2,000.0	2,000.0	1,999.9	1,999.9	3.9	7.6	-90.19	-0.1	-30.0	30.0	19.1	10.85	2.764		
2,100.0	2,100.0	2,099.9	2,099.9	4.0	7.9	-90.19	-0.1	-30.0	30.0	18.8	11.21	2.676		
2,200.0	2,200.0	2,199.9	2,199.9	4.1	8.2	-90.19	-0.1	-30.0	30.0	18.4	11.58	2.592		
2,300.0	2,300.0	2,299.9	2,299.9	4.2	8.6	-90.19	-0.1	-30.0	30.0	18.1	11.94	2.512		
2,400.0	2,400.0	2,399.9	2,399.9	4.3	8.9	-90.19	-0.1	-30.0	30.0	17.7	12.31	2.437		
2,500.0	2,500.0	2,499.9	2,499.9	4.4	9.2	-90.19	-0.1	-30.0	30.0	17.3	12.68	2.365 CC, ES, SF		
2,600.0	2,600.0	2,598.8	2,598.8	4.5	9.6	-98.51	-0.1	-31.7	31.9	18.9	13.04	2.448		
2,700.0	2,699.8	2,698.6	2,698.5	4.6	9.9	-106.24	-0.1	-35.2	36.5	23.1	13.45	2.717		
2,800.0	2,799.6	2,798.2	2,798.1	4.7	10.2	-114.41	-0.1	-38.7	42.4	28.4	13.91	3.045		
2,900.0	2,899.4	2,897.9	2,897.7	4.8	10.5	-120.52	-0.1	-42.1	48.8	34.4	14.39	3.393		
3,000.0	2,999.1	2,997.6	2,997.3	4.9	10.9	-125.17	-0.1	-45.6	55.7	40.8	14.87	3.747		
3,100.0	3,098.9	3,097.3	3,096.9	5.0	11.2	-128.78	-0.1	-49.1	62.9	47.5	15.34	4.098		
3,200.0	3,198.6	3,196.9	3,196.5	5.1	11.5	-131.64	-0.1	-52.6	70.2	54.4	15.81	4.443		
3,300.0	3,298.4	3,296.6	3,296.2	5.2	11.9	-133.95	-0.1	-56.1	77.7	61.5	16.28	4.777		
3,400.0	3,398.1	3,396.3	3,395.8	5.3	12.2	-135.86	-0.1	-59.5	85.4	68.6	16.74	5.100		
3,500.0	3,497.9	3,496.0	3,495.4	5.4	12.5	-137.45	-0.1	-63.0	93.1	75.9	17.20	5.411		
3,600.0	3,597.6	3,595.6	3,595.0	5.5	12.9	-138.80	-0.1	-66.5	100.8	83.1	17.66	5.709		
3,700.0	3,697.4	3,695.3	3,694.6	5.6	13.2	-139.95	-0.1	-70.0	108.6	90.5	18.11	5.996		
3,800.0	3,797.2	3,795.0	3,794.2	5.7	13.6	-140.95	-0.1	-73.4	116.4	97.9	18.57	6.270		
3,900.0	3,896.9	3,894.6	3,893.8	5.8	13.9	-141.82	-0.1	-76.9	124.3	105.3	19.03	6.533		
4,000.0	3,996.7	3,994.3	3,993.4	5.9	14.3	-142.59	-0.1	-80.4	132.2	112.7	19.48	6.786		
4,100.0	4,096.4	4,094.0	4,093.1	6.1	14.6	-143.28	-0.1	-83.9	140.1	120.2	19.94	7.027		
4,200.0	4,196.2	4,193.7	4,192.7	6.2	14.9	-143.88	-0.1	-87.4	148.0	127.6	20.40	7.258		
4,300.0	4,295.9	4,293.3	4,292.3	6.3	15.3	-144.43	-0.1	-90.8	156.0	135.1	20.85	7.480		
4,400.0	4,395.7	4,393.0	4,391.9	6.4	15.6	-144.93	-0.1	-94.3	164.0	142.6	21.31	7.693		
4,500.0	4,495.5	4,492.7	4,491.5	6.5	16.0	-145.38	-0.1	-97.8	171.9	150.2	21.77	7.897		
4,600.0	4,595.2	4,592.4	4,591.1	6.6	16.3	-145.78	-0.1	-101.3	179.9	157.7	22.23	8.093		
4,700.0	4,695.0	4,692.0	4,690.7	6.7	16.7	-146.16	-0.1	-104.8	187.9	165.2	22.69	8.282		
4,800.0	4,794.7	4,791.7	4,790.3	6.9	17.0	-146.50	-0.1	-108.2	195.9	172.7	23.15	8.463		
4,900.0	4,894.5	4,891.4	4,890.0	7.0	17.4	-146.82	-0.1	-111.7	203.9	180.3	23.61	8.636		
5,000.0	4,994.2	4,991.1	4,989.6	7.1	17.7	-147.11	-0.1	-115.2	211.9	187.8	24.07	8.804		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,094.0	5,090.7	5,089.2	7.2	18.1	-147.38	-0.1	-118.7	219.9	195.4	24.53	8.965	
5,200.0	5,193.7	5,190.4	5,188.8	7.3	18.4	-147.63	-0.1	-122.1	227.9	202.9	24.99	9.120	
5,300.0	5,293.5	5,290.1	5,288.4	7.4	18.8	-147.87	-0.1	-125.6	235.9	210.5	25.46	9.269	
5,400.0	5,393.3	5,389.7	5,388.0	7.6	19.1	-148.09	-0.1	-129.1	244.0	218.1	25.92	9.413	
5,500.0	5,493.0	5,489.4	5,487.6	7.7	19.5	-148.29	-0.1	-132.6	252.0	225.6	26.38	9.552	
5,600.0	5,592.8	5,584.5	5,582.6	7.8	19.8	-148.26	-0.1	-137.1	260.8	234.0	26.82	9.725	
5,700.0	5,692.5	5,680.2	5,678.0	7.9	20.1	-147.71	-0.1	-144.7	271.5	244.3	27.24	9.969	
5,800.0	5,792.3	5,779.5	5,777.0	8.0	20.5	-147.07	-0.1	-153.4	282.7	255.1	27.67	10.219	
5,900.0	5,892.0	5,878.9	5,875.9	8.1	20.8	-146.47	-0.1	-162.1	294.0	265.9	28.10	10.462	
6,000.0	5,991.8	5,978.2	5,974.9	8.3	21.2	-145.91	-0.1	-170.7	305.2	276.7	28.53	10.698	
6,084.7	6,076.3	6,062.3	6,058.6	8.4	21.5	-145.47	-0.1	-178.0	314.8	285.9	28.90	10.893	
6,100.0	6,091.6	6,077.5	6,073.8	8.4	21.5	-145.41	-0.1	-179.4	316.5	287.5	28.97	10.927	
6,200.0	6,191.4	6,177.0	6,172.9	8.5	21.9	-144.81	-0.1	-188.0	326.0	296.6	29.39	11.091	
6,284.7	6,276.1	6,261.3	6,256.9	8.6	22.2	-138.76	-0.1	-195.4	331.8	302.1	29.73	11.160	
6,300.0	6,291.4	6,276.6	6,272.1	8.6	22.3	-138.59	-0.1	-196.7	332.7	302.9	29.79	11.167	
6,400.0	6,391.4	6,376.2	6,371.3	8.8	22.6	-137.48	-0.1	-205.4	338.6	308.4	30.19	11.214	
6,500.0	6,491.4	6,475.8	6,470.6	8.9	23.0	-136.42	-0.1	-214.1	344.5	313.9	30.59	11.264	
6,600.0	6,591.4	6,575.4	6,569.8	9.0	23.3	-135.39	-0.1	-222.8	350.6	319.6	30.98	11.317	
6,700.0	6,691.4	6,675.1	6,669.1	9.1	23.7	-134.39	-0.1	-231.4	356.8	325.4	31.37	11.372	
6,800.0	6,791.4	6,774.7	6,768.3	9.3	24.0	-133.43	-0.1	-240.1	363.1	331.3	31.77	11.429	
6,900.0	6,891.4	6,874.3	6,867.5	9.4	24.4	-132.50	-0.1	-248.8	369.5	337.3	32.16	11.488	
7,000.0	6,991.4	6,973.9	6,966.8	9.5	24.7	-131.61	-0.1	-257.5	375.9	343.4	32.55	11.548	
7,100.0	7,091.4	7,073.5	7,066.0	9.6	25.1	-130.74	-0.1	-266.2	382.5	349.6	32.95	11.609	
7,200.0	7,191.4	7,173.2	7,165.3	9.7	25.4	-129.91	-0.1	-274.9	389.2	355.8	33.34	11.672	
7,300.0	7,291.4	7,272.8	7,264.5	9.9	25.8	-129.10	-0.1	-283.5	395.9	362.2	33.74	11.735	
7,400.0	7,391.4	7,372.4	7,363.8	10.0	26.2	-128.32	-0.1	-292.2	402.7	368.6	34.13	11.799	
7,500.0	7,491.4	7,472.0	7,463.0	10.1	26.5	-127.56	-0.1	-300.9	409.6	375.1	34.53	11.864	
7,600.0	7,591.4	7,571.6	7,562.2	10.2	26.9	-126.83	-0.1	-309.6	416.6	381.6	34.92	11.929	
7,700.0	7,691.4	7,671.2	7,661.5	10.4	27.2	-126.13	-0.1	-318.3	423.6	388.3	35.32	11.994	
7,800.0	7,791.4	7,770.9	7,760.7	10.5	27.6	-125.44	-0.1	-327.0	430.6	394.9	35.71	12.059	
7,900.0	7,891.4	7,870.5	7,860.0	10.6	27.9	-124.78	-0.1	-335.6	437.8	401.7	36.11	12.124	
8,000.0	7,991.4	7,970.1	7,959.2	10.8	28.3	-124.14	-0.1	-344.3	445.0	408.5	36.51	12.190	
8,100.0	8,091.4	8,069.7	8,058.4	10.9	28.7	-123.52	-0.1	-353.0	452.2	415.3	36.90	12.255	
8,200.0	8,191.4	8,169.3	8,157.7	11.0	29.0	-122.92	-0.1	-361.7	459.5	422.2	37.30	12.320	
8,300.0	8,291.4	8,269.0	8,256.9	11.1	29.4	-122.34	-0.1	-370.4	466.9	429.2	37.70	12.384	
8,400.0	8,391.4	8,368.6	8,356.2	11.3	29.7	-121.78	-0.1	-379.1	474.3	436.2	38.10	12.449	
8,500.0	8,491.4	8,468.2	8,455.4	11.4	30.1	-121.24	-0.1	-387.7	481.7	443.2	38.50	12.513	
8,600.0	8,591.4	8,567.8	8,554.6	11.5	30.5	-120.71	-0.1	-396.4	489.2	450.3	38.90	12.576	
8,700.0	8,691.4	8,667.4	8,653.9	11.6	30.8	-120.19	-0.1	-405.1	496.7	457.4	39.30	12.639	
8,800.0	8,791.4	8,767.1	8,753.1	11.8	31.2	-119.70	-0.1	-413.8	504.3	464.6	39.70	12.702	
8,900.0	8,891.4	8,866.7	8,852.4	11.9	31.5	-119.21	-0.1	-422.5	511.9	471.8	40.10	12.764	
9,000.0	8,991.4	8,966.3	8,951.6	12.0	31.9	-118.74	-0.1	-431.1	519.5	479.0	40.50	12.826	
9,100.0	9,091.4	9,065.9	9,050.8	12.1	32.3	-118.29	-0.1	-439.8	527.2	486.3	40.91	12.887	
9,200.0	9,191.4	9,165.5	9,150.1	12.3	32.6	-117.85	-0.1	-448.5	534.9	493.5	41.31	12.947	
9,300.0	9,291.4	9,265.2	9,249.3	12.4	33.0	-117.42	-0.1	-457.2	542.6	500.9	41.72	13.007	
9,400.0	9,391.4	9,364.8	9,348.6	12.5	33.3	-117.00	-0.1	-465.9	550.3	508.2	42.12	13.066	
9,500.0	9,491.4	9,464.4	9,447.8	12.7	33.7	-116.59	-0.1	-474.6	558.1	515.6	42.53	13.124	
9,600.0	9,591.4	9,564.0	9,547.0	12.8	34.0	-116.20	-0.1	-483.2	565.9	523.0	42.93	13.182	
9,684.6	9,676.0	9,648.3	9,631.0	12.9	34.4	-115.87	-0.1	-490.6	572.6	529.3	43.28	13.231	
9,700.0	9,691.4	9,663.6	9,646.3	12.9	34.4	65.91	-0.1	-491.9	573.7	530.4	43.29	13.253	
9,750.0	9,741.3	9,710.6	9,693.1	12.9	34.6	66.15	-0.1	-496.0	576.2	532.8	43.42	13.271	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	9,790.7	9,740.2	9,722.5	12.9	34.7	66.45	-0.8	-498.9	578.0	534.5	43.50	13.289		
9,850.0	9,839.1	9,768.1	9,750.2	12.9	34.8	66.85	-2.7	-502.2	580.1	536.5	43.56	13.316		
9,900.0	9,886.4	9,800.0	9,781.5	13.0	34.9	67.44	-6.5	-506.6	582.4	538.8	43.63	13.349		
9,950.0	9,932.0	9,823.5	9,804.4	13.0	35.0	67.91	-10.2	-510.3	585.0	541.3	43.68	13.393		
10,000.0	9,975.7	9,850.0	9,830.0	13.0	35.1	68.51	-15.5	-514.9	588.0	544.3	43.74	13.443		
10,050.0	10,017.2	9,878.2	9,856.8	13.1	35.2	69.24	-22.3	-520.3	591.5	547.7	43.81	13.500		
10,100.0	10,056.0	9,900.0	9,877.2	13.1	35.2	69.75	-28.4	-524.8	595.6	551.7	43.90	13.567		
10,150.0	10,091.9	9,932.1	9,906.8	13.2	35.4	70.73	-38.7	-531.9	600.3	556.3	44.02	13.638		
10,200.0	10,124.7	9,950.0	9,922.9	13.2	35.4	71.05	-45.1	-536.2	605.9	561.7	44.16	13.721		
10,250.0	10,154.0	9,985.2	9,954.0	13.3	35.5	72.24	-59.1	-545.1	612.1	567.7	44.33	13.808		
10,300.0	10,179.7	10,011.4	9,976.4	13.3	35.6	72.96	-70.6	-552.2	619.3	574.8	44.53	13.908		
10,350.0	10,201.6	10,037.4	9,998.0	13.4	35.7	73.63	-83.0	-559.6	627.5	582.8	44.76	14.019		
10,400.0	10,219.5	10,063.1	10,018.8	13.4	35.8	74.24	-96.1	-567.3	636.8	591.8	45.03	14.144		
10,450.0	10,233.2	10,088.7	10,038.7	13.5	35.9	74.77	-110.0	-575.2	647.2	601.9	45.31	14.285		
10,500.0	10,242.7	10,114.1	10,057.8	13.5	35.9	75.22	-124.7	-583.4	658.8	613.2	45.61	14.444		
10,550.0	10,247.9	10,139.3	10,076.0	13.5	36.0	75.57	-140.0	-591.8	671.5	625.6	45.92	14.623		
10,586.8	10,249.0	10,157.8	10,088.8	13.5	36.1	75.76	-151.6	-598.2	681.7	635.5	46.15	14.771		
10,600.0	10,248.9	10,164.4	10,093.3	13.5	36.1	76.19	-155.9	-600.5	685.5	639.3	46.23	14.828		
10,700.0	10,248.5	10,220.5	10,129.1	13.6	36.3	79.62	-194.1	-620.6	719.0	672.1	46.87	15.338		
10,800.0	10,248.1	10,287.3	10,166.0	13.6	36.4	83.06	-243.7	-645.9	758.5	711.0	47.51	15.966		
10,900.0	10,247.7	10,365.9	10,200.7	13.6	36.6	86.15	-306.8	-677.1	801.7	753.5	48.13	16.657		
11,000.0	10,247.3	10,455.7	10,228.3	13.7	36.8	88.45	-383.9	-713.9	846.3	797.6	48.76	17.358		
11,100.0	10,246.9	10,554.4	10,242.9	13.7	37.0	89.60	-472.4	-754.6	890.8	841.4	49.42	18.024		
11,200.0	10,246.5	10,676.1	10,243.6	13.8	37.3	89.71	-584.1	-803.1	933.6	883.4	50.16	18.612		
11,300.0	10,246.1	10,814.3	10,243.1	14.0	37.5	89.72	-713.1	-852.5	972.3	921.3	50.99	19.066		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=27' @ 3005.4usft (N 893)

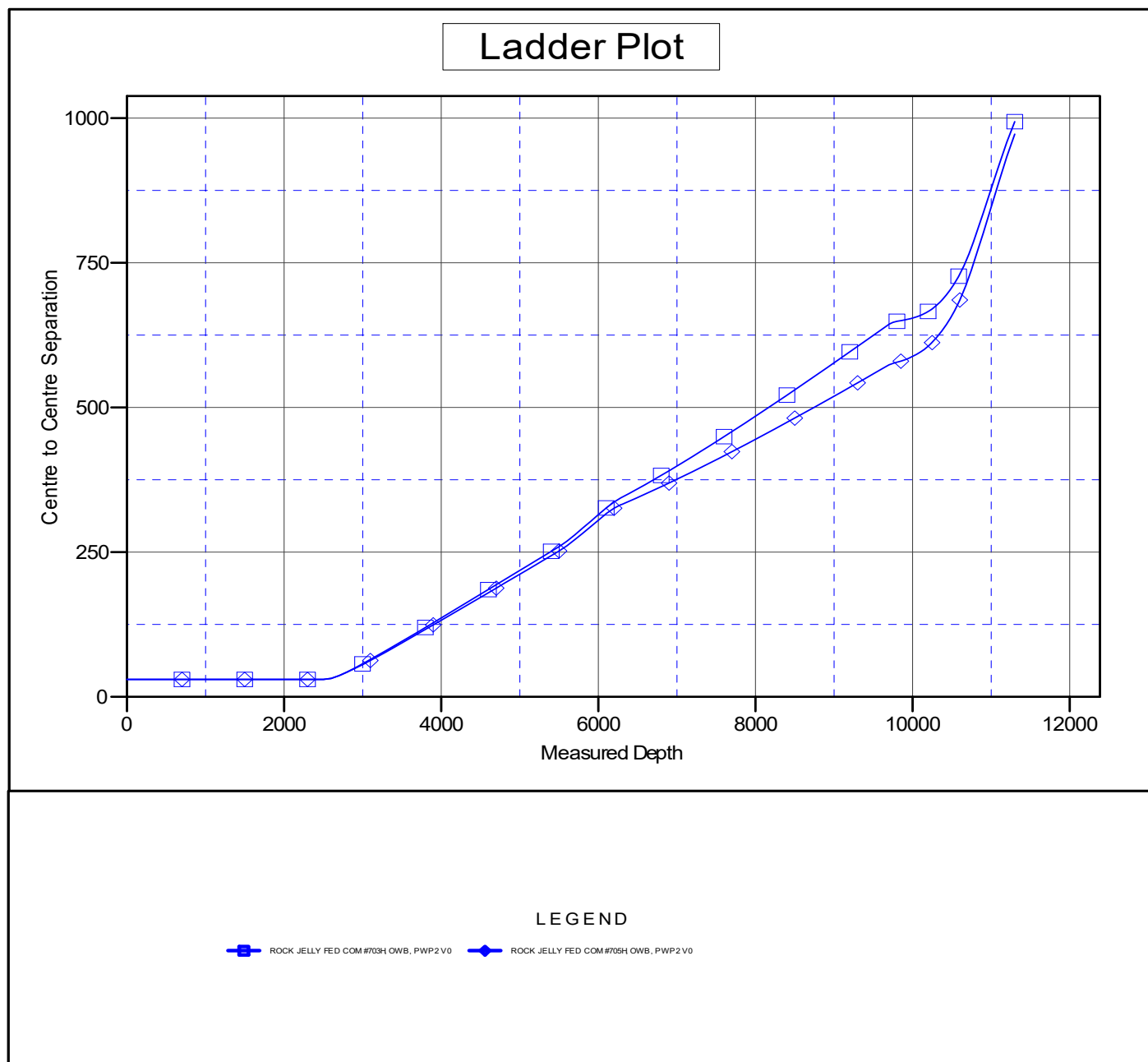
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #704H

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

Grid Convergence at Surface is: 0.19°



Concho Resources LLC

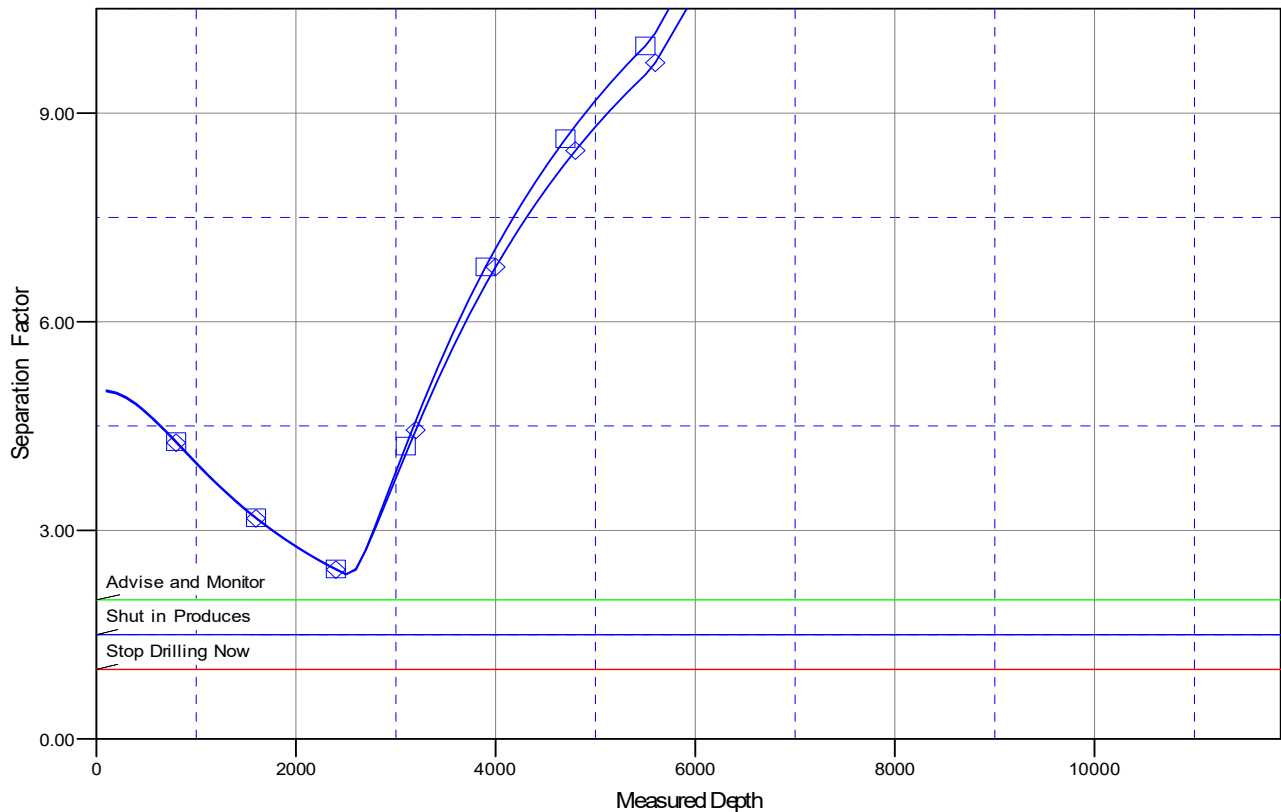
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=27' @ 3005.4usft (N 893)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #704H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.19°

Separation Factor Plot



LEGEND

■ ROCK JELLY FED COM #703H OWB, PWP2 V0
 ◆ ROCK JELLY FED COM #705H OWB, PWP2 V0

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #704H

OWB

Plan: PWP2

Standard Survey Report

02 July, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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		

Well	ROCK JELLY FED COM #704H			
Well Position	+N/-S	0.0 usft	Northing:	392,240.60 usfi
	+E/-W	0.0 usft	Easting:	610,869.30 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation:	usfi
			Latitude:	32° 4' 40.366 N
			Longitude:	103° 58' 31.377 W
			Ground Level:	2,978.4 usfi

Wellbore	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/2/2020	6.83	59.74	47,467.58073410

Design	PWP2
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Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.63

Survey Tool Program		Date	7/2/2020	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,685.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,685.0	25,649.5	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
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

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	5.28	2,600.0	1.7	0.2	-1.7	2.00	2.00	0.00
2,700.0	4.00	5.28	2,699.8	6.9	0.6	-6.9	2.00	2.00	0.00
Start 3384.7 hold at 2700.0 MD									
2,800.0	4.00	5.28	2,799.6	13.9	1.3	-13.9	0.00	0.00	0.00
2,900.0	4.00	5.28	2,899.4	20.8	1.9	-20.8	0.00	0.00	0.00
3,000.0	4.00	5.28	2,999.1	27.8	2.6	-27.8	0.00	0.00	0.00
3,100.0	4.00	5.28	3,098.9	34.7	3.2	-34.7	0.00	0.00	0.00
3,200.0	4.00	5.28	3,198.6	41.7	3.8	-41.7	0.00	0.00	0.00
3,300.0	4.00	5.28	3,298.4	48.6	4.5	-48.6	0.00	0.00	0.00
3,400.0	4.00	5.28	3,398.1	55.6	5.1	-55.5	0.00	0.00	0.00
3,500.0	4.00	5.28	3,497.9	62.5	5.8	-62.5	0.00	0.00	0.00
3,600.0	4.00	5.28	3,597.6	69.5	6.4	-69.4	0.00	0.00	0.00
3,700.0	4.00	5.28	3,697.4	76.4	7.1	-76.4	0.00	0.00	0.00
3,800.0	4.00	5.28	3,797.2	83.4	7.7	-83.3	0.00	0.00	0.00
3,900.0	4.00	5.28	3,896.9	90.3	8.3	-90.2	0.00	0.00	0.00
4,000.0	4.00	5.28	3,996.7	97.2	9.0	-97.2	0.00	0.00	0.00
4,100.0	4.00	5.28	4,096.4	104.2	9.6	-104.1	0.00	0.00	0.00
4,200.0	4.00	5.28	4,196.2	111.1	10.3	-111.1	0.00	0.00	0.00
4,300.0	4.00	5.28	4,295.9	118.1	10.9	-118.0	0.00	0.00	0.00
4,400.0	4.00	5.28	4,395.7	125.0	11.5	-125.0	0.00	0.00	0.00
4,500.0	4.00	5.28	4,495.5	132.0	12.2	-131.9	0.00	0.00	0.00
4,600.0	4.00	5.28	4,595.2	138.9	12.8	-138.8	0.00	0.00	0.00
4,700.0	4.00	5.28	4,695.0	145.9	13.5	-145.8	0.00	0.00	0.00
4,800.0	4.00	5.28	4,794.7	152.8	14.1	-152.7	0.00	0.00	0.00
4,900.0	4.00	5.28	4,894.5	159.8	14.8	-159.7	0.00	0.00	0.00
5,000.0	4.00	5.28	4,994.2	166.7	15.4	-166.6	0.00	0.00	0.00
5,100.0	4.00	5.28	5,094.0	173.7	16.0	-173.5	0.00	0.00	0.00
5,200.0	4.00	5.28	5,193.7	180.6	16.7	-180.5	0.00	0.00	0.00
5,300.0	4.00	5.28	5,293.5	187.5	17.3	-187.4	0.00	0.00	0.00
5,400.0	4.00	5.28	5,393.3	194.5	18.0	-194.4	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,500.0	4.00	5.28	5,493.0	201.4	18.6	-201.3	0.00	0.00	0.00
5,600.0	4.00	5.28	5,592.8	208.4	19.2	-208.3	0.00	0.00	0.00
5,700.0	4.00	5.28	5,692.5	215.3	19.9	-215.2	0.00	0.00	0.00
5,800.0	4.00	5.28	5,792.3	222.3	20.5	-222.1	0.00	0.00	0.00
5,900.0	4.00	5.28	5,892.0	229.2	21.2	-229.1	0.00	0.00	0.00
6,000.0	4.00	5.28	5,991.8	236.2	21.8	-236.0	0.00	0.00	0.00
6,084.7	4.00	5.28	6,076.3	242.1	22.4	-241.9	0.00	0.00	0.00
Start Drop -2.00									
6,100.0	3.69	5.28	6,091.6	243.1	22.5	-242.9	2.00	-2.00	0.00
6,200.0	1.69	5.28	6,191.4	247.8	22.9	-247.6	2.00	-2.00	0.00
6,284.7	0.00	0.00	6,276.1	249.0	23.0	-248.8	2.00	-2.00	0.00
Start 3399.9 hold at 6284.7 MD									
6,300.0	0.00	0.00	6,291.4	249.0	23.0	-248.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,391.4	249.0	23.0	-248.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,491.4	249.0	23.0	-248.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,591.4	249.0	23.0	-248.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,691.4	249.0	23.0	-248.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,791.4	249.0	23.0	-248.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,891.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,991.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,091.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,191.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,291.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,391.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,491.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,591.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,691.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,791.4	249.0	23.0	-248.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,891.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,991.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,091.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,191.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,291.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,391.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,491.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,591.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,691.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,791.4	249.0	23.0	-248.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,891.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,991.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,091.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,191.4	249.0	23.0	-248.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
9,300.0	0.00	0.00	9,291.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,391.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,491.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,591.4	249.0	23.0	-248.8	0.00	0.00	0.00
9,684.6	0.00	0.00	9,676.0	249.0	23.0	-248.8	0.00	0.00	0.00
Start DLS 10.00 TFO 178.19									
9,700.0	1.54	178.19	9,691.4	248.8	23.0	-248.6	10.00	10.00	0.00
9,800.0	11.54	178.19	9,790.7	237.4	23.4	-237.3	10.00	10.00	0.00
9,900.0	21.54	178.19	9,886.4	209.0	24.3	-208.8	10.00	10.00	0.00
10,000.0	31.54	178.19	9,975.7	164.4	25.7	-164.2	10.00	10.00	0.00
10,100.0	41.54	178.19	10,056.0	104.9	27.5	-104.8	10.00	10.00	0.00
10,200.0	51.54	178.19	10,124.7	32.5	29.8	-32.3	10.00	10.00	0.00
10,300.0	61.54	178.19	10,179.7	-50.8	32.5	51.0	10.00	10.00	0.00
10,400.0	71.54	178.19	10,219.5	-142.4	35.4	142.6	10.00	10.00	0.00
10,500.0	81.54	178.19	10,242.7	-239.5	38.4	239.7	10.00	10.00	0.00
10,586.8	90.23	178.19	10,249.0	-325.9	41.1	326.2	10.00	10.00	0.00
Start 4660.8 hold at 10586.8 MD									
10,600.0	90.23	178.19	10,248.9	-339.1	41.6	339.4	0.00	0.00	0.00
10,700.0	90.23	178.19	10,248.5	-439.0	44.7	439.3	0.00	0.00	0.00
10,800.0	90.23	178.19	10,248.1	-539.0	47.9	539.3	0.00	0.00	0.00
10,900.0	90.23	178.19	10,247.7	-638.9	51.0	639.3	0.00	0.00	0.00
11,000.0	90.23	178.19	10,247.3	-738.9	54.2	739.2	0.00	0.00	0.00
11,100.0	90.23	178.19	10,246.9	-838.8	57.3	839.2	0.00	0.00	0.00
11,200.0	90.23	178.19	10,246.5	-938.8	60.5	939.2	0.00	0.00	0.00
11,300.0	90.23	178.19	10,246.1	-1,038.7	63.6	1,039.1	0.00	0.00	0.00
11,400.0	90.23	178.19	10,245.7	-1,138.7	66.8	1,139.1	0.00	0.00	0.00
11,500.0	90.23	178.19	10,245.3	-1,238.6	69.9	1,239.1	0.00	0.00	0.00
11,600.0	90.23	178.19	10,244.9	-1,338.6	73.1	1,339.0	0.00	0.00	0.00
11,700.0	90.23	178.19	10,244.5	-1,438.5	76.3	1,439.0	0.00	0.00	0.00
11,800.0	90.23	178.19	10,244.1	-1,538.5	79.4	1,539.0	0.00	0.00	0.00
11,900.0	90.23	178.19	10,243.8	-1,638.4	82.6	1,638.9	0.00	0.00	0.00
12,000.0	90.23	178.19	10,243.4	-1,738.4	85.7	1,738.9	0.00	0.00	0.00
12,100.0	90.23	178.19	10,243.0	-1,838.3	88.9	1,838.9	0.00	0.00	0.00
12,200.0	90.23	178.19	10,242.6	-1,938.3	92.0	1,938.8	0.00	0.00	0.00
12,300.0	90.23	178.19	10,242.2	-2,038.2	95.2	2,038.8	0.00	0.00	0.00
12,400.0	90.23	178.19	10,241.8	-2,138.2	98.3	2,138.8	0.00	0.00	0.00
12,500.0	90.23	178.19	10,241.4	-2,238.1	101.5	2,238.7	0.00	0.00	0.00
12,600.0	90.23	178.19	10,241.0	-2,338.1	104.6	2,338.7	0.00	0.00	0.00
12,700.0	90.23	178.19	10,240.6	-2,438.0	107.8	2,438.7	0.00	0.00	0.00
12,800.0	90.23	178.19	10,240.2	-2,538.0	110.9	2,538.6	0.00	0.00	0.00
12,900.0	90.23	178.19	10,239.8	-2,637.9	114.1	2,638.6	0.00	0.00	0.00
13,000.0	90.23	178.19	10,239.4	-2,737.9	117.3	2,738.6	0.00	0.00	0.00
13,100.0	90.23	178.19	10,239.0	-2,837.8	120.4	2,838.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
13,200.0	90.23	178.19	10,238.6	-2,937.8	123.6	2,938.5	0.00	0.00	0.00
13,300.0	90.23	178.19	10,238.2	-3,037.7	126.7	3,038.5	0.00	0.00	0.00
13,400.0	90.23	178.19	10,237.8	-3,137.7	129.9	3,138.5	0.00	0.00	0.00
13,500.0	90.23	178.19	10,237.4	-3,237.6	133.0	3,238.4	0.00	0.00	0.00
13,600.0	90.23	178.19	10,237.0	-3,337.6	136.2	3,338.4	0.00	0.00	0.00
13,700.0	90.23	178.19	10,236.6	-3,437.5	139.3	3,438.4	0.00	0.00	0.00
13,800.0	90.23	178.19	10,236.2	-3,537.5	142.5	3,538.3	0.00	0.00	0.00
13,900.0	90.23	178.19	10,235.8	-3,637.4	145.6	3,638.3	0.00	0.00	0.00
14,000.0	90.23	178.19	10,235.4	-3,737.4	148.8	3,738.3	0.00	0.00	0.00
14,100.0	90.23	178.19	10,235.0	-3,837.3	152.0	3,838.2	0.00	0.00	0.00
14,200.0	90.23	178.19	10,234.6	-3,937.3	155.1	3,938.2	0.00	0.00	0.00
14,300.0	90.23	178.19	10,234.3	-4,037.2	158.3	4,038.2	0.00	0.00	0.00
14,400.0	90.23	178.19	10,233.9	-4,137.2	161.4	4,138.1	0.00	0.00	0.00
14,500.0	90.23	178.19	10,233.5	-4,237.1	164.6	4,238.1	0.00	0.00	0.00
14,600.0	90.23	178.19	10,233.1	-4,337.1	167.7	4,338.1	0.00	0.00	0.00
14,700.0	90.23	178.19	10,232.7	-4,437.0	170.9	4,438.0	0.00	0.00	0.00
14,800.0	90.23	178.19	10,232.3	-4,537.0	174.0	4,538.0	0.00	0.00	0.00
14,900.0	90.23	178.19	10,231.9	-4,636.9	177.2	4,638.0	0.00	0.00	0.00
15,000.0	90.23	178.19	10,231.5	-4,736.9	180.3	4,737.9	0.00	0.00	0.00
15,100.0	90.23	178.19	10,231.1	-4,836.8	183.5	4,837.9	0.00	0.00	0.00
15,200.0	90.23	178.19	10,230.7	-4,936.8	186.6	4,937.9	0.00	0.00	0.00
15,247.6	90.23	178.19	10,230.5	-4,984.3	188.1	4,985.5	0.00	0.00	0.00
Start DLS 2.00 TFO 90.09									
15,300.0	90.23	179.24	10,230.3	-5,036.7	189.3	5,037.9	2.00	0.00	2.00
15,361.7	90.22	180.48	10,230.1	-5,098.5	189.5	5,099.6	2.00	0.00	2.00
Start 5223.2 hold at 15361.7 MD									
15,400.0	90.22	180.48	10,229.9	-5,136.7	189.2	5,137.8	0.00	0.00	0.00
15,500.0	90.22	180.48	10,229.5	-5,236.7	188.3	5,237.8	0.00	0.00	0.00
15,600.0	90.22	180.48	10,229.1	-5,336.7	187.5	5,337.8	0.00	0.00	0.00
15,700.0	90.22	180.48	10,228.7	-5,436.7	186.7	5,437.8	0.00	0.00	0.00
15,800.0	90.22	180.48	10,228.3	-5,536.7	185.8	5,537.8	0.00	0.00	0.00
15,900.0	90.22	180.48	10,228.0	-5,636.7	185.0	5,637.8	0.00	0.00	0.00
16,000.0	90.22	180.48	10,227.6	-5,736.7	184.2	5,737.8	0.00	0.00	0.00
16,100.0	90.22	180.48	10,227.2	-5,836.7	183.3	5,837.8	0.00	0.00	0.00
16,200.0	90.22	180.48	10,226.8	-5,936.7	182.5	5,937.8	0.00	0.00	0.00
16,300.0	90.22	180.48	10,226.4	-6,036.7	181.7	6,037.7	0.00	0.00	0.00
16,400.0	90.22	180.48	10,226.0	-6,136.7	180.9	6,137.7	0.00	0.00	0.00
16,500.0	90.22	180.48	10,225.6	-6,236.7	180.0	6,237.7	0.00	0.00	0.00
16,600.0	90.22	180.48	10,225.2	-6,336.7	179.2	6,337.7	0.00	0.00	0.00
16,700.0	90.22	180.48	10,224.8	-6,436.7	178.4	6,437.7	0.00	0.00	0.00
16,800.0	90.22	180.48	10,224.4	-6,536.7	177.5	6,537.7	0.00	0.00	0.00
16,900.0	90.22	180.48	10,224.1	-6,636.7	176.7	6,637.7	0.00	0.00	0.00
17,000.0	90.22	180.48	10,223.7	-6,736.7	175.9	6,737.7	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
17,100.0	90.22	180.48	10,223.3	-6,836.7	175.0	6,837.6	0.00	0.00	0.00
17,200.0	90.22	180.48	10,222.9	-6,936.7	174.2	6,937.6	0.00	0.00	0.00
17,300.0	90.22	180.48	10,222.5	-7,036.6	173.4	7,037.6	0.00	0.00	0.00
17,400.0	90.22	180.48	10,222.1	-7,136.6	172.6	7,137.6	0.00	0.00	0.00
17,500.0	90.22	180.48	10,221.7	-7,236.6	171.7	7,237.6	0.00	0.00	0.00
17,600.0	90.22	180.48	10,221.3	-7,336.6	170.9	7,337.6	0.00	0.00	0.00
17,700.0	90.22	180.48	10,220.9	-7,436.6	170.1	7,437.6	0.00	0.00	0.00
17,800.0	90.22	180.48	10,220.6	-7,536.6	169.2	7,537.6	0.00	0.00	0.00
17,900.0	90.22	180.48	10,220.2	-7,636.6	168.4	7,637.6	0.00	0.00	0.00
18,000.0	90.22	180.48	10,219.8	-7,736.6	167.6	7,737.5	0.00	0.00	0.00
18,100.0	90.22	180.48	10,219.4	-7,836.6	166.7	7,837.5	0.00	0.00	0.00
18,200.0	90.22	180.48	10,219.0	-7,936.6	165.9	7,937.5	0.00	0.00	0.00
18,300.0	90.22	180.48	10,218.6	-8,036.6	165.1	8,037.5	0.00	0.00	0.00
18,400.0	90.22	180.48	10,218.2	-8,136.6	164.3	8,137.5	0.00	0.00	0.00
18,500.0	90.22	180.48	10,217.8	-8,236.6	163.4	8,237.5	0.00	0.00	0.00
18,600.0	90.22	180.48	10,217.4	-8,336.6	162.6	8,337.5	0.00	0.00	0.00
18,700.0	90.22	180.48	10,217.0	-8,436.6	161.8	8,437.5	0.00	0.00	0.00
18,800.0	90.22	180.48	10,216.7	-8,536.6	160.9	8,537.4	0.00	0.00	0.00
18,900.0	90.22	180.48	10,216.3	-8,636.6	160.1	8,637.4	0.00	0.00	0.00
19,000.0	90.22	180.48	10,215.9	-8,736.6	159.3	8,737.4	0.00	0.00	0.00
19,100.0	90.22	180.48	10,215.5	-8,836.6	158.4	8,837.4	0.00	0.00	0.00
19,200.0	90.22	180.48	10,215.1	-8,936.6	157.6	8,937.4	0.00	0.00	0.00
19,300.0	90.22	180.48	10,214.7	-9,036.6	156.8	9,037.4	0.00	0.00	0.00
19,400.0	90.22	180.48	10,214.3	-9,136.6	156.0	9,137.4	0.00	0.00	0.00
19,500.0	90.22	180.48	10,213.9	-9,236.6	155.1	9,237.4	0.00	0.00	0.00
19,600.0	90.22	180.48	10,213.5	-9,336.6	154.3	9,337.4	0.00	0.00	0.00
19,700.0	90.22	180.48	10,213.1	-9,436.5	153.5	9,437.3	0.00	0.00	0.00
19,800.0	90.22	180.48	10,212.8	-9,536.5	152.6	9,537.3	0.00	0.00	0.00
19,900.0	90.22	180.48	10,212.4	-9,636.5	151.8	9,637.3	0.00	0.00	0.00
20,000.0	90.22	180.48	10,212.0	-9,736.5	151.0	9,737.3	0.00	0.00	0.00
20,100.0	90.22	180.48	10,211.6	-9,836.5	150.1	9,837.3	0.00	0.00	0.00
20,200.0	90.22	180.48	10,211.2	-9,936.5	149.3	9,937.3	0.00	0.00	0.00
20,300.0	90.22	180.48	10,210.8	-10,036.5	148.5	10,037.3	0.00	0.00	0.00
20,400.0	90.22	180.48	10,210.4	-10,136.5	147.7	10,137.3	0.00	0.00	0.00
20,500.0	90.22	180.48	10,210.0	-10,236.5	146.8	10,237.2	0.00	0.00	0.00
20,585.0	90.22	180.48	10,209.7	-10,321.5	146.1	10,322.2	0.00	0.00	0.00
Start DLS 2.00 TFO 78.07									
20,587.6	90.23	180.53	10,209.7	-10,324.1	146.1	10,324.8	2.00	0.41	1.96
Start 5061.9 hold at 20587.6 MD									
20,600.0	90.23	180.53	10,209.6	-10,336.5	146.0	10,337.2	0.00	0.00	0.00
20,700.0	90.23	180.53	10,209.2	-10,436.5	145.1	10,437.2	0.00	0.00	0.00
20,800.0	90.23	180.53	10,208.8	-10,536.5	144.1	10,537.2	0.00	0.00	0.00
20,900.0	90.23	180.53	10,208.4	-10,636.5	143.2	10,637.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
21,000.0	90.23	180.53	10,208.0	-10,736.5	142.3	10,737.2	0.00	0.00	0.00
21,100.0	90.23	180.53	10,207.6	-10,836.5	141.4	10,837.2	0.00	0.00	0.00
21,200.0	90.23	180.53	10,207.2	-10,936.5	140.5	10,937.2	0.00	0.00	0.00
21,300.0	90.23	180.53	10,206.8	-11,036.5	139.5	11,037.1	0.00	0.00	0.00
21,400.0	90.23	180.53	10,206.4	-11,136.5	138.6	11,137.1	0.00	0.00	0.00
21,500.0	90.23	180.53	10,206.0	-11,236.5	137.7	11,237.1	0.00	0.00	0.00
21,600.0	90.23	180.53	10,205.6	-11,336.5	136.8	11,337.1	0.00	0.00	0.00
21,700.0	90.23	180.53	10,205.1	-11,436.5	135.9	11,437.1	0.00	0.00	0.00
21,800.0	90.23	180.53	10,204.7	-11,536.4	134.9	11,537.1	0.00	0.00	0.00
21,900.0	90.23	180.53	10,204.3	-11,636.4	134.0	11,637.1	0.00	0.00	0.00
22,000.0	90.23	180.53	10,203.9	-11,736.4	133.1	11,737.1	0.00	0.00	0.00
22,100.0	90.23	180.53	10,203.5	-11,836.4	132.2	11,837.0	0.00	0.00	0.00
22,200.0	90.23	180.53	10,203.1	-11,936.4	131.3	11,937.0	0.00	0.00	0.00
22,300.0	90.23	180.53	10,202.7	-12,036.4	130.3	12,037.0	0.00	0.00	0.00
22,400.0	90.23	180.53	10,202.3	-12,136.4	129.4	12,137.0	0.00	0.00	0.00
22,500.0	90.23	180.53	10,201.9	-12,236.4	128.5	12,237.0	0.00	0.00	0.00
22,600.0	90.23	180.53	10,201.5	-12,336.4	127.6	12,337.0	0.00	0.00	0.00
22,700.0	90.23	180.53	10,201.1	-12,436.4	126.6	12,437.0	0.00	0.00	0.00
22,800.0	90.23	180.53	10,200.6	-12,536.4	125.7	12,536.9	0.00	0.00	0.00
22,900.0	90.23	180.53	10,200.2	-12,636.4	124.8	12,636.9	0.00	0.00	0.00
23,000.0	90.23	180.53	10,199.8	-12,736.4	123.9	12,736.9	0.00	0.00	0.00
23,100.0	90.23	180.53	10,199.4	-12,836.4	123.0	12,836.9	0.00	0.00	0.00
23,200.0	90.23	180.53	10,199.0	-12,936.4	122.0	12,936.9	0.00	0.00	0.00
23,300.0	90.23	180.53	10,198.6	-13,036.4	121.1	13,036.9	0.00	0.00	0.00
23,400.0	90.23	180.53	10,198.2	-13,136.4	120.2	13,136.9	0.00	0.00	0.00
23,500.0	90.23	180.53	10,197.8	-13,236.4	119.3	13,236.9	0.00	0.00	0.00
23,600.0	90.23	180.53	10,197.4	-13,336.4	118.4	13,336.8	0.00	0.00	0.00
23,700.0	90.23	180.53	10,197.0	-13,436.4	117.4	13,436.8	0.00	0.00	0.00
23,800.0	90.23	180.53	10,196.6	-13,536.3	116.5	13,536.8	0.00	0.00	0.00
23,900.0	90.23	180.53	10,196.2	-13,636.3	115.6	13,636.8	0.00	0.00	0.00
24,000.0	90.23	180.53	10,195.7	-13,736.3	114.7	13,736.8	0.00	0.00	0.00
24,100.0	90.23	180.53	10,195.3	-13,836.3	113.8	13,836.8	0.00	0.00	0.00
24,200.0	90.23	180.53	10,194.9	-13,936.3	112.8	13,936.8	0.00	0.00	0.00
24,300.0	90.23	180.53	10,194.5	-14,036.3	111.9	14,036.8	0.00	0.00	0.00
24,400.0	90.23	180.53	10,194.1	-14,136.3	111.0	14,136.7	0.00	0.00	0.00
24,500.0	90.23	180.53	10,193.7	-14,236.3	110.1	14,236.7	0.00	0.00	0.00
24,600.0	90.23	180.53	10,193.3	-14,336.3	109.2	14,336.7	0.00	0.00	0.00
24,700.0	90.23	180.53	10,192.9	-14,436.3	108.2	14,436.7	0.00	0.00	0.00
24,800.0	90.23	180.53	10,192.5	-14,536.3	107.3	14,536.7	0.00	0.00	0.00
24,900.0	90.23	180.53	10,192.1	-14,636.3	106.4	14,636.7	0.00	0.00	0.00
25,000.0	90.23	180.53	10,191.7	-14,736.3	105.5	14,736.7	0.00	0.00	0.00
25,100.0	90.23	180.53	10,191.2	-14,836.3	104.6	14,836.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.4usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.4usft (N 893)
Well:	ROCK JELLY FED COM #704H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
25,200.0	90.23	180.53	10,190.8	-14,936.3	103.6	14,936.6	0.00	0.00	0.00
25,300.0	90.23	180.53	10,190.4	-15,036.3	102.7	15,036.6	0.00	0.00	0.00
25,400.0	90.23	180.53	10,190.0	-15,136.3	101.8	15,136.6	0.00	0.00	0.00
25,500.0	90.23	180.53	10,189.6	-15,236.3	100.9	15,236.6	0.00	0.00	0.00
25,600.0	90.23	180.53	10,189.2	-15,336.3	100.0	15,336.6	0.00	0.00	0.00
25,649.5	90.23	180.53	10,189.0	-15,385.8	99.5	15,386.1	0.00	0.00	0.00
TD at 25649.5									

Design Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (ROCK JELLY FE	- plan misses target center by 4.0usft at 25519.4usft MD (10189.5 TVD, -15255.6 N, 100.7 E)	- Point	0.00	0.01	10,186.0	-15,255.6	98.9	376,985.00	610,968.20	32° 2' 9.386 N	103° 58' 30.815 W
PBHL (ROCK JELLY I	- plan hits target center	- Rectangle (sides W100.0 H5,065.0 D20.0)	0.23	0.53	10,189.0	-15,385.8	99.5	376,854.80	610,968.80	32° 2' 8.098 N	103° 58' 30.814 W
T2 (ROCK JELLY FEI	- plan hits target center	- Rectangle (sides W100.0 H5,337.0 D20.0)	0.23	0.48	10,209.7	-10,321.5	146.1	381,919.13	611,015.42	32° 2' 58.215 N	103° 58' 30.077 W
T1 (ROCK JELLY FEI	- plan hits target center	- Rectangle (sides W100.0 H5,007.0 D20.0)	0.23	357.19	10,230.5	-4,984.3	188.1	387,256.26	611,057.45	32° 3' 51.033 N	103° 58' 29.382 W
FTP (ROCK JELLY FE	- plan misses target center by 92.9usft at 10277.3usft MD (10168.5 TVD, -31.1 N, 31.8 E)	- Circle (radius 50.0)	0.00	0.00	10,246.0	20.1	29.4	392,260.70	610,898.70	32° 4' 40.564 N	103° 58' 31.034 W

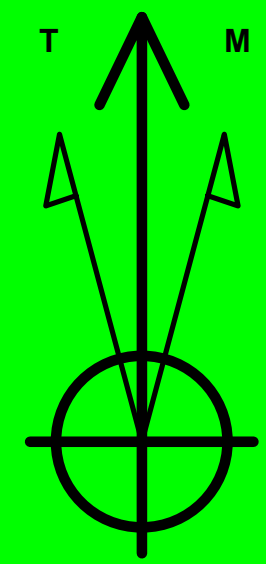
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2700	2700	7	1	Start 3384.7 hold at 2700.0 MD
6085	6076	242	22	Start Drop -2.00
6285	6276	249	23	Start 3399.9 hold at 6284.7 MD
9685	9676	249	23	Start DLS 10.00 TFO 178.19
10,587	10,249	-326	41	Start 4660.8 hold at 10586.8 MD
15,248	10,231	-4984	188	Start DLS 2.00 TFO 90.09
15,362	10,230	-5098	189	Start 5223.2 hold at 15361.7 MD
20,585	10,210	-10,321	146	Start DLS 2.00 TFO 78.07
20,588	10,210	-10,324	146	Start 5061.9 hold at 20587.6 MD
25,650	10,189	-15,386	100	TD at 25649.5

Checked By: _____ Approved By: _____ Date: _____



Project: ATLAS PROSPECT (NM-E)
Site: ROCK JELLY FEDERAL PROJECT (ATLAS 2629)
Well: ROCK JELLY FED COM #704H
Wellbore: OWPB
Design: PWP2
GL: 2978.4
KB=27' @ 3005.4usft (N 893)

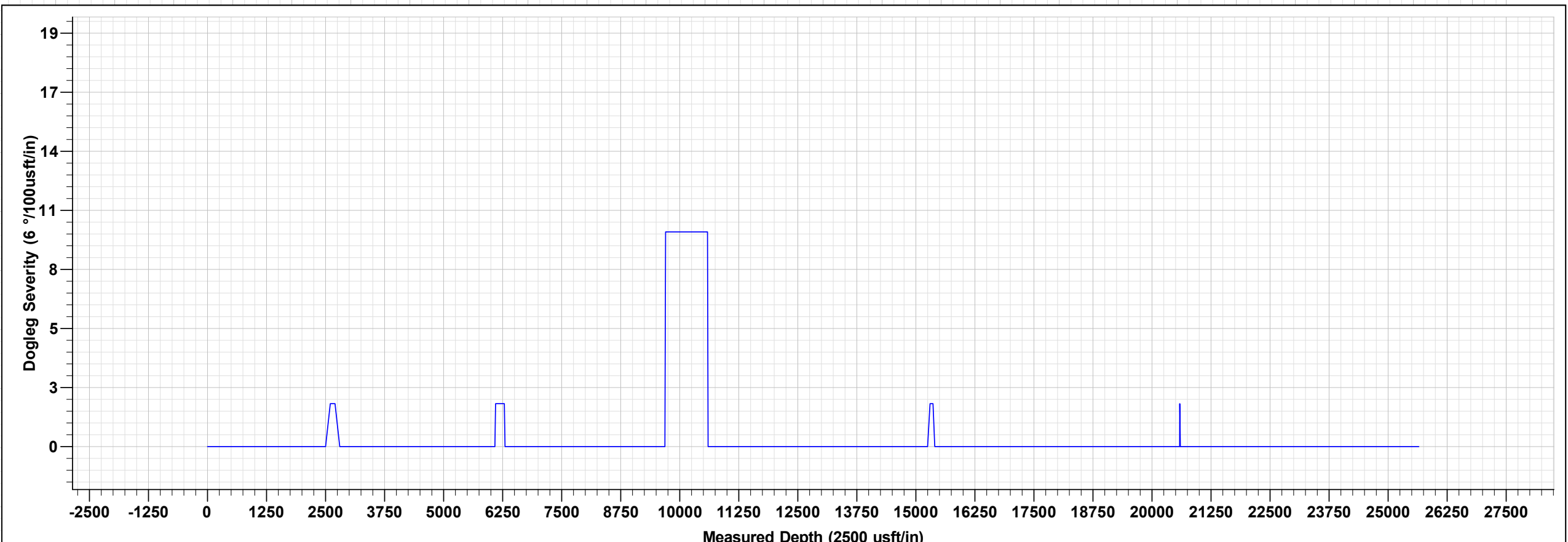
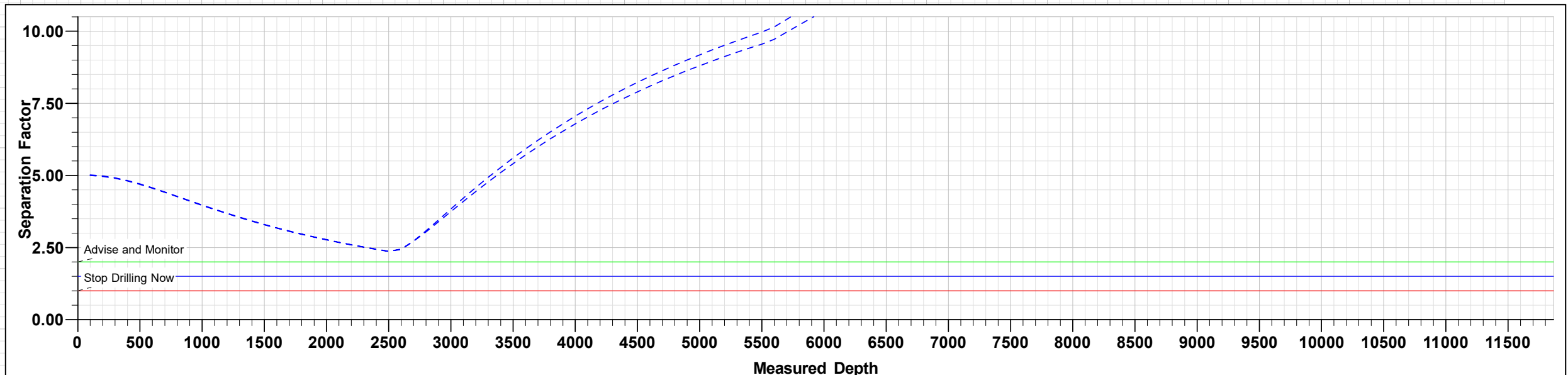


Azimuths to Grid North
True North: -0.19°
Magnetic North: 6.64°

Magnetic Field
Strength: 47467.6nT
Dip Angle: 59.74°
Date: 7/2/2020
Model: IGRF2020

WELL DETAILS: ROCK JELLY FED COM #704H						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	392240.60	610869.30	32° 4' 40.366 N	103° 58' 31.377 W	

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
LTP (ROCK JELLY FED COM #704H) (copy)	10186.0	-15255.6	98.9	376985.00	610968.20	32° 2' 9.386 N
PBHL (ROCK JELLY FED COM #704H)	10189.0	-15385.8	99.5	376854.80	610968.80	32° 2' 8.098 N
T2 (ROCK JELLY FED COM #704H)	10209.7	-10321.5	146.1	381919.13	611015.42	32° 2' 58.215 N
T1 (ROCK JELLY FED COM #704H)	10230.5	-4984.3	188.1	387256.26	611057.45	32° 3' 51.033 N
FTP (ROCK JELLY FED COM #704H)	10246.0	20.1	29.4	392260.70	610898.70	32° 4' 40.564 N



ROCK JELLY FED COM #704H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2700.0	4.00	5.28	2699.8	6.9	0.6	2.00	5.28	-6.9	Start 3384.7 hold at 2700.0 MD
6084.7	4.00	5.28	6076.3	242.1	22.4	0.00	0.00	-241.9	Start Drop -2.00
6284.7	0.00	0.00	6276.1	249.0	23.0	2.00	180.00	-248.8	Start 3399.9 hold at 6284.7 MD
9684.6	0.00	0.00	9676.0	249.0	23.0	0.00	0.00	-248.8	Start DLS 10.00 TFO 178.19
10586.8	90.23	178.19	10249.0	-325.9	41.1	10.00	178.19	326.2	Start 4660.8 hold at 10586.8 MD
15247.6	90.23	178.19	10230.5	-4984.3	188.1	0.00	0.00	4985.5	Start DLS 2.00 TFO 90.09
15361.7	90.22	180.48	10230.1	-5098.5	189.5	2.00	90.09	5099.6	Start 5223.2 hold at 15361.7 MD
20585.0	90.22	180.48	10209.7	-10321.5	146.1	0.00	0.00	10322.2	Start DLS 2.00 TFO 78.07
20587.6	90.23	180.53	10209.7	-10324.1	146.1	2.00	78.07	10324.8	Start 5061.9 hold at 20587.6 MD
25649.5	90.23	180.53	10189.0	-15385.8	99.5	0.00	0.00	15386.1	TD at 25649.5

