

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM13997

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

ROCK JELLY FEDERAL COM 701H

2. Name of Operator

COG OPERATING LLC

Contact: STAN WAGNER

9. API Well No.

30-015-47583-00-X1

3a. Address

600 W ILLINOIS AVENUE
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432.683.7443

10. Field and Pool or Exploratory Area

PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 3 T26S R29E NENE 210FNL 1055FEL
32.078003 N Lat, 103.975960 W Lon

11. County or Parish, State

EDDY COUNTY, 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	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 recomplete 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 recompletion 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 & 330' FEL SESE 15-26S-29E Eddy Co., NM

Entered - KMS NMOCD

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

**Electronic Submission #535476 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 (21PP0363SE)**

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 #535476

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM13997	NMNM13997
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 701H Sec 3 T26S R29E Mer NMP NENE 210FNL 1055FEL	ROCK JELLY FEDERAL COM 701H Sec 3 T26S R29E NENE 210FNL 1055FEL 32.078003 N Lat, 103.975960 W Lon

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-0161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

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 30-015-47583	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 329756	Property Name ROCK JELLY FEDERAL COM	Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2978.0'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	3	26-S	29-E		210	NORTH	1055	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	26-S	29-E		200	SOUTH	330	EAST	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 & 330' FEL
Y=392332.4 N
X=655532.5 E
LAT.=32.078065° N
LONG.=103.964636° W
GRID AZ. TO FTP
99°05'34"

LEASE X-ING
LAT.=32.075221° N
LONG.=103.964605° W

LEASE X-ING
LAT.=32.064230° N
LONG.=103.964485° W

LEASE X-ING
LAT.=32.056855° N
LONG.=103.964405° W

LEASE X-ING
LAT.=32.049458° N
LONG.=103.964324° W

LTP
330' FSL & 332' FEL
Y=376884.5 N
X=655729.0 E
LAT.=32.035598° N
LONG.=103.964173° W

POINT LEGEND

1	Y=392863.6 N X=655847.3 E
2	Y=389979.3 N X=655973.7 E
3	Y=387297.4 N X=656100.1 E
4	Y=381920.6 N X=656056.9 E
5	Y=379229.8 N X=656066.9 E
6	Y=376539.9 N X=656060.1 E
7	Y=376657.8 N X=653341.0 E
8	Y=381980.3 N X=653363.4 E
9	Y=392853.1 N X=653204.1 E

SECTION 3
SECTION 10
SECTION 15

GRID AZ. 179°16'18"
HORZ. DIST. 15579.3'

210'
1055'
330'
200'

NAD 83 NME
SURFACE LOCATION
Y=392449.4 N
X=654801.2 E
LAT.=32.078394° N
LONG.=103.966996° W

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=376754.3 N
X=655730.6 E
LAT.=32.035240° N
LONG.=103.964169° 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
NEW MEXICO
LICENSED PROFESSIONAL SURVEYOR
17777

Chad Harcrow 5/27/20
Certificate No. CHAD HARCROW 17777
W.O. # 20-760 DRAWN BY: DS

Intent ☒ As Drilled ☐

API #
30-015-47583

Operator Name:	Property Name:	Well Number
COG Operating LLC	Rock Jelly Federal Com	701H

Kick Off Point (KOP)

UL A	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 A	Section 3	Township 26S	Range 29E	Lot	Feet 330	From N/S North	Feet 330	From E/W East	County Eddy
Latitude 32.078065					Longitude -103.964636				NAD 83

Last Take Point (LTP)

UL P	Section 15	Township 26S	Range 29E	Lot	Feet 330	From N/S South	Feet 332	From E/W East	County Eddy
Latitude 32.035598					Longitude -103.964173				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:	Property Name:	Well Number
COG Operating LLC	Rock Jelly Federal Com	703H

KZ 06/29/2018

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #701H

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #701H	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	9,634.9	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
9,640.8	25,808.5	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
PECOS EAST FEDERAL COM 22 14H - OWB - AWP	25,700.0	11,479.2	836.3	688.0	5.639	SF
PECOS EAST FEDERAL COM 22 14H - OWB - AWP	25,808.5	10,186.3	763.1	679.8	9.161	CC, ES
ROCK JELLY FED COM #702H - OWB - PWP2	2,500.0	2,496.8	30.0	17.3	2.366	CC, ES, SF
ROCK JELLY FED COM #703H - OWB - PWP2						Out of range

Offset Design		ROCK JELLY FEDERAL PROJECT (ATLAS 2629) - PECOS EAST FEDERAL COM 22 14H - OWB - AV										Offset Site Error:		0.0 usft	
Survey Program:		156-MWD										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		
21,100.0	10,272.8	15,840.0	11,034.9		95.6	-162.92	-11,347.1	1,193.2	969.9	837.4	132.53	7.319			
21,200.0	10,272.4	15,840.0	11,034.9		96.5	-162.92	-11,347.1	1,193.2	937.6	801.4	136.19	6.885			
21,300.0	10,272.0	15,840.0	11,034.9		97.3	-162.92	-11,347.1	1,193.2	915.1	776.0	139.07	6.580			
21,400.0	10,271.6	15,840.0	11,034.9		98.2	-162.92	-11,347.1	1,193.2	903.2	762.3	140.91	6.409			
21,458.4	10,271.3	15,840.0	11,034.9		98.7	-162.92	-11,347.1	1,193.2	901.3	759.8	141.45	6.372			
21,500.0	10,271.2	15,806.5	11,035.6		99.0	-163.04	-11,380.6	1,191.6	901.6	760.2	141.43	6.375			
21,600.0	10,270.8	15,706.7	11,037.5		99.9	-163.36	-11,480.3	1,187.3	902.5	761.2	141.26	6.389			
21,700.0	10,270.4	15,609.2	11,039.2		100.8	-163.59	-11,577.7	1,184.6	903.6	762.5	141.17	6.401			
21,800.0	10,270.0	15,504.5	11,040.5		101.6	-163.74	-11,682.4	1,183.0	904.7	763.6	141.10	6.412			
21,900.0	10,269.6	15,402.3	11,040.7		102.5	-163.81	-11,784.6	1,182.3	905.0	763.9	141.08	6.415			
22,000.0	10,269.2	15,306.7	11,041.5		103.3	-163.89	-11,880.2	1,181.8	905.9	764.8	141.10	6.420			
22,100.0	10,268.8	15,204.0	11,042.0		104.2	-163.93	-11,982.9	1,181.7	906.7	765.5	141.11	6.425			
22,200.0	10,268.4	15,099.9	11,042.2		105.0	-163.95	-12,087.0	1,181.9	907.1	766.0	141.13	6.428			
22,300.0	10,268.0	14,983.8	11,041.3		105.9	-163.99	-12,203.0	1,181.6	906.6	765.6	141.07	6.427			
22,400.0	10,267.6	14,887.2	11,039.8		106.7	-164.05	-12,299.6	1,180.7	905.1	764.0	141.12	6.414			
22,500.0	10,267.2	14,797.2	11,039.6		107.6	-164.22	-12,389.6	1,178.2	904.4	763.3	141.17	6.407			
22,600.0	10,266.8	14,684.7	11,039.4		108.5	-164.46	-12,502.1	1,174.8	903.8	762.7	141.07	6.407			
22,700.0	10,266.4	14,579.6	11,037.9		109.3	-164.59	-12,607.1	1,172.8	902.2	761.1	141.06	6.396			
22,800.0	10,266.0	14,467.7	11,034.6		110.2	-164.68	-12,719.0	1,171.0	899.2	758.1	141.03	6.376			
22,900.0	10,265.6	14,370.2	11,031.4		111.0	-164.71	-12,816.4	1,170.1	896.0	754.9	141.11	6.349			
23,000.0	10,265.2	14,291.1	11,029.3		111.9	-164.73	-12,895.5	1,169.6	893.7	752.3	141.31	6.324			

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #701H	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: 156-MWD													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		
23,020.5	10,265.1	14,277.3	11,029.2	112.0	67.9	-164.74	-12,909.3	1,169.5	893.6	752.2	141.35	6.322		
23,100.0	10,264.8	14,210.5	11,030.1	112.7	67.1	-164.82	-12,976.1	1,168.7	894.6	753.1	141.43	6.325		
23,200.0	10,264.4	14,086.2	11,029.9	113.6	65.4	-164.91	-13,100.4	1,167.8	894.4	753.0	141.41	6.325		
23,300.0	10,264.0	13,980.4	11,027.9	114.4	64.1	-164.98	-13,206.1	1,166.6	892.6	751.1	141.48	6.309		
23,334.3	10,263.9	13,957.0	11,027.4	114.7	63.8	-164.99	-13,229.5	1,166.4	892.0	750.4	141.58	6.301		
23,352.4	10,263.8	13,935.6	11,027.1	114.9	63.5	-164.99	-13,250.9	1,166.3	891.7	750.2	141.58	6.298		
23,383.5	10,263.7	13,912.7	11,026.9	115.2	63.2	-165.00	-13,273.8	1,166.1	891.6	749.9	141.66	6.294		
23,400.0	10,263.6	13,900.6	11,026.9	115.3	63.1	-165.00	-13,285.9	1,166.1	891.6	749.9	141.70	6.292		
23,500.0	10,263.2	13,821.4	11,028.0	116.2	62.1	-165.00	-13,365.1	1,166.2	893.5	751.6	141.90	6.297		
23,600.0	10,262.8	13,715.3	11,030.8	117.0	60.7	-165.00	-13,471.2	1,166.8	896.7	754.7	142.00	6.315		
23,700.0	10,262.4	13,563.1	11,028.4	117.9	58.9	-164.93	-13,623.3	1,167.1	895.6	753.7	141.85	6.314		
23,800.0	10,262.0	13,476.9	11,025.4	118.7	57.8	-164.88	-13,709.5	1,167.0	892.6	750.5	142.13	6.280		
23,900.0	10,261.6	13,392.0	11,024.3	119.6	56.8	-164.90	-13,794.3	1,166.2	891.5	749.1	142.39	6.261		
24,000.0	10,261.2	13,289.2	11,023.7	120.4	55.7	-164.97	-13,897.1	1,164.7	891.0	748.4	142.57	6.250		
24,100.0	10,260.8	13,187.5	11,022.5	121.3	54.5	-164.99	-13,998.8	1,164.0	890.1	747.3	142.79	6.234		
24,200.0	10,260.4	13,089.1	11,021.2	122.1	53.4	-164.99	-14,097.2	1,163.5	889.2	746.2	143.04	6.217		
24,295.6	10,260.1	13,000.4	11,020.4	123.0	52.5	-164.99	-14,185.9	1,163.2	888.7	745.4	143.30	6.202		
24,300.0	10,260.0	12,997.0	11,020.4	123.0	52.5	-164.99	-14,189.3	1,163.2	888.7	745.4	143.31	6.201		
24,400.0	10,259.6	12,919.3	11,021.1	123.8	51.6	-164.98	-14,267.0	1,163.3	890.1	746.5	143.62	6.198		
24,500.0	10,259.2	12,817.5	11,022.9	124.7	50.6	-164.92	-14,368.7	1,164.6	892.6	748.7	143.92	6.202		
24,600.0	10,258.8	12,713.0	11,023.9	125.6	49.6	-164.75	-14,473.2	1,167.5	894.7	750.4	144.27	6.201		
24,700.0	10,258.4	12,615.9	11,024.8	126.4	48.7	-164.58	-14,570.3	1,170.4	896.8	752.1	144.64	6.200		
24,800.0	10,258.0	12,517.2	11,026.1	127.3	47.8	-164.46	-14,668.9	1,172.5	899.1	754.1	145.02	6.200		
24,900.0	10,257.6	12,416.7	11,027.6	128.1	46.9	-164.35	-14,769.4	1,174.6	901.5	756.1	145.41	6.200		
25,000.0	10,257.2	12,313.1	11,028.6	129.0	46.1	-164.21	-14,873.0	1,176.9	903.6	757.7	145.84	6.196		
25,100.0	10,256.8	12,211.4	11,029.4	129.8	45.3	-164.07	-14,974.7	1,179.3	905.4	759.2	146.23	6.192		
25,200.0	10,256.4	12,024.7	11,022.5	130.7	43.9	-163.57	-15,161.0	1,185.3	903.9	757.7	146.14	6.185		
25,300.0	10,256.0	11,914.6	11,010.1	131.6	43.2	-163.11	-15,270.3	1,189.0	894.4	747.9	146.57	6.103		
25,400.0	10,255.6	11,764.5	10,992.1	132.4	42.3	-162.72	-15,419.3	1,189.4	883.9	737.3	146.56	6.031		
25,500.0	10,255.2	11,643.0	10,972.0	133.3	41.6	-162.70	-15,539.0	1,183.4	866.9	720.2	146.75	5.908		
25,600.0	10,254.8	11,560.2	10,958.7	134.1	41.2	-162.71	-15,620.6	1,179.0	850.5	703.0	147.51	5.766		
25,700.0	10,254.4	11,479.2	10,947.2	135.0	40.9	-162.64	-15,700.7	1,176.3	836.3	688.0	148.32	5.639 SF		
25,808.5	10,254.0	10,186.3	10,152.9	135.9	37.8	-89.95	-16,430.5	1,131.3	763.1	679.8	83.30	9.161 CC, ES		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #701H	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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-90.00	0.0	-30.0	30.2				
100.0	100.0	96.8	96.8	3.0	3.0	-90.00	0.0	-30.0	30.0	24.0	6.00	4.997	
200.0	200.0	196.8	196.8	3.0	3.0	-90.00	0.0	-30.0	30.0	24.0	6.04	4.967	
300.0	300.0	296.8	296.8	3.0	3.1	-90.00	0.0	-30.0	30.0	23.9	6.12	4.902	
400.0	400.0	396.8	396.8	3.0	3.2	-90.00	0.0	-30.0	30.0	23.8	6.24	4.807	
500.0	500.0	496.8	496.8	3.1	3.4	-90.00	0.0	-30.0	30.0	23.6	6.40	4.690	
600.0	600.0	596.8	596.8	3.1	3.6	-90.00	0.0	-30.0	30.0	23.4	6.58	4.557	
700.0	700.0	696.8	696.8	3.1	3.8	-90.00	0.0	-30.0	30.0	23.2	6.80	4.413	
800.0	800.0	796.8	796.8	3.2	4.0	-90.00	0.0	-30.0	30.0	23.0	7.04	4.264	
900.0	900.0	896.8	896.8	3.2	4.2	-90.00	0.0	-30.0	30.0	22.7	7.29	4.113	
1,000.0	1,000.0	896.8	896.8	3.2	4.5	-90.00	0.0	-30.0	30.0	22.4	7.57	3.964	
1,100.0	1,100.0	1,096.8	1,096.8	3.3	4.8	-90.00	0.0	-30.0	30.0	22.1	7.86	3.818	
1,200.0	1,200.0	1,196.8	1,196.8	3.4	5.1	-90.00	0.0	-30.0	30.0	21.8	8.16	3.678	
1,300.0	1,300.0	1,296.8	1,296.8	3.4	5.3	-90.00	0.0	-30.0	30.0	21.5	8.47	3.542	
1,400.0	1,400.0	1,396.8	1,396.8	3.5	5.6	-90.00	0.0	-30.0	30.0	21.2	8.79	3.413	
1,500.0	1,500.0	1,496.8	1,496.8	3.5	6.0	-90.00	0.0	-30.0	30.0	20.9	9.12	3.290	
1,600.0	1,600.0	1,596.8	1,596.8	3.6	6.3	-90.00	0.0	-30.0	30.0	20.5	9.45	3.174	
1,700.0	1,700.0	1,696.8	1,696.8	3.7	6.6	-90.00	0.0	-30.0	30.0	20.2	9.79	3.063	
1,800.0	1,800.0	1,796.8	1,796.8	3.8	6.9	-90.00	0.0	-30.0	30.0	19.9	10.14	2.959	
1,900.0	1,900.0	1,896.8	1,896.8	3.9	7.2	-90.00	0.0	-30.0	30.0	19.5	10.49	2.859	
2,000.0	2,000.0	1,996.8	1,996.8	3.9	7.6	-90.00	0.0	-30.0	30.0	19.2	10.85	2.766	
2,100.0	2,100.0	2,096.8	2,096.8	4.0	7.9	-90.00	0.0	-30.0	30.0	18.8	11.21	2.677	
2,200.0	2,200.0	2,196.8	2,196.8	4.1	8.2	-90.00	0.0	-30.0	30.0	18.4	11.57	2.593	
2,300.0	2,300.0	2,296.8	2,296.8	4.2	8.6	-90.00	0.0	-30.0	30.0	18.1	11.94	2.513	
2,400.0	2,400.0	2,396.8	2,396.8	4.3	8.9	-90.00	0.0	-30.0	30.0	17.7	12.31	2.438	
2,500.0	2,500.0	2,496.8	2,496.8	4.4	9.2	-90.00	0.0	-30.0	30.0	17.3	12.68	2.366 CC, ES, SF	
2,600.0	2,600.0	2,596.8	2,596.8	4.5	9.6	180.00	0.0	-30.0	31.7	18.7	13.05	2.432	
2,700.0	2,699.8	2,696.6	2,696.6	4.5	9.9	180.00	0.0	-30.0	37.0	23.5	13.43	2.753	
2,750.0	2,749.7	2,746.5	2,746.5	4.5	10.1	180.00	0.0	-30.0	40.9	27.3	13.62	3.002	
2,800.0	2,799.5	2,796.3	2,796.3	4.5	10.3	180.00	0.0	-30.0	45.3	31.4	13.82	3.276	
2,900.0	2,899.1	2,895.9	2,895.9	4.6	10.6	180.00	0.0	-30.0	54.0	39.8	14.21	3.799	
3,000.0	2,998.7	2,995.5	2,995.5	4.6	10.9	180.00	0.0	-30.0	62.7	48.1	14.60	4.294	
3,100.0	3,098.4	3,095.2	3,095.2	4.6	11.3	180.00	0.0	-30.0	71.4	56.4	15.00	4.761	
3,200.0	3,198.0	3,194.8	3,194.8	4.7	11.6	180.00	0.0	-30.0	80.1	64.7	15.40	5.202	
3,300.0	3,297.6	3,294.4	3,294.4	4.7	12.0	180.00	0.0	-30.0	88.8	73.0	15.81	5.619	
3,400.0	3,397.2	3,394.0	3,394.0	4.8	12.3	180.00	0.0	-30.0	97.6	81.3	16.22	6.014	
3,500.0	3,496.8	3,493.6	3,493.6	4.9	12.7	180.00	0.0	-30.0	106.3	89.6	16.64	6.388	
3,600.0	3,596.4	3,593.2	3,593.2	4.9	13.0	180.00	0.0	-30.0	115.0	97.9	17.05	6.742	
3,700.0	3,696.1	3,692.9	3,692.9	5.0	13.4	180.00	0.0	-30.0	123.7	106.2	17.48	7.078	
3,800.0	3,795.7	3,792.5	3,792.5	5.0	13.7	180.00	0.0	-30.0	132.4	114.5	17.90	7.397	
3,900.0	3,895.3	3,892.1	3,892.1	5.1	14.1	180.00	0.0	-30.0	141.1	122.8	18.33	7.700	
4,000.0	3,994.9	3,991.7	3,991.7	5.2	14.4	180.00	0.0	-30.0	149.8	131.1	18.76	7.987	
4,100.0	4,094.5	4,091.3	4,091.3	5.3	14.8	180.00	0.0	-30.0	158.6	139.4	19.19	8.261	
4,200.0	4,194.2	4,191.0	4,191.0	5.3	15.1	180.00	0.0	-30.0	167.3	147.6	19.63	8.522	
4,300.0	4,293.8	4,290.6	4,290.6	5.4	15.5	180.00	0.0	-30.0	176.0	155.9	20.07	8.770	
4,400.0	4,393.4	4,390.2	4,390.2	5.5	15.8	180.00	0.0	-30.0	184.7	164.2	20.51	9.007	
4,500.0	4,493.0	4,489.8	4,489.8	5.6	16.2	180.00	0.0	-30.0	193.4	172.5	20.95	9.232	
4,600.0	4,592.6	4,589.4	4,589.4	5.7	16.5	180.00	0.0	-30.0	202.1	180.7	21.40	9.448	
4,700.0	4,692.3	4,689.1	4,689.1	5.8	16.9	180.00	0.0	-30.0	210.9	189.0	21.84	9.654	
4,800.0	4,791.9	4,788.7	4,788.7	5.8	17.2	180.00	0.0	-30.0	219.6	197.3	22.29	9.851	
4,900.0	4,891.5	4,888.3	4,888.3	5.9	17.6	180.00	0.0	-30.0	228.3	205.5	22.74	10.039	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #701H	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		
5,000.0	4,991.1	4,987.9	4,987.9	6.0	17.9	180.00	0.0	-30.0	237.0	213.8	23.19	10.220		
5,100.0	5,090.7	5,087.5	5,087.5	6.1	18.3	180.00	0.0	-30.0	245.7	222.1	23.64	10.393		
5,200.0	5,190.4	5,187.2	5,187.2	6.2	18.6	180.00	0.0	-30.0	254.4	230.3	24.10	10.559		
5,300.0	5,290.0	5,286.8	5,286.8	6.3	19.0	180.00	0.0	-30.0	263.1	238.6	24.55	10.718		
5,400.0	5,389.6	5,386.4	5,386.4	6.4	19.3	180.00	0.0	-30.0	271.9	246.9	25.01	10.871		
5,500.0	5,489.2	5,486.0	5,486.0	6.5	19.7	180.00	0.0	-30.0	280.6	255.1	25.47	11.017		
5,600.0	5,588.8	5,577.8	5,577.8	6.6	20.0	180.00	0.0	-31.1	290.5	264.6	25.89	11.217		
5,700.0	5,688.5	5,667.6	5,667.5	6.7	20.3	180.00	0.0	-34.9	303.4	277.1	26.30	11.537		
5,800.0	5,788.1	5,758.3	5,758.0	6.8	20.6	180.00	0.0	-41.6	319.5	292.8	26.70	11.964		
5,900.0	5,887.7	5,856.9	5,856.2	6.9	20.9	180.00	0.0	-49.9	336.5	309.4	27.14	12.398		
6,000.0	5,987.3	5,955.4	5,954.3	7.0	21.3	180.00	0.0	-58.2	353.6	326.0	27.59	12.817		
6,100.0	6,086.9	6,053.9	6,052.5	7.1	21.6	180.00	0.0	-66.5	370.7	342.6	28.03	13.222		
6,200.0	6,186.6	6,152.5	6,150.7	7.2	21.9	180.00	0.0	-74.8	387.7	359.3	28.48	13.614		
6,300.0	6,286.2	6,251.0	6,248.9	7.3	22.3	180.00	0.0	-83.1	404.8	375.9	28.93	13.992		
6,400.0	6,385.8	6,349.5	6,347.1	7.4	22.6	180.00	0.0	-91.4	421.9	392.5	29.38	14.359		
6,500.0	6,485.4	6,448.0	6,445.3	7.5	23.0	180.00	0.0	-99.7	439.0	409.1	29.83	14.714		
6,600.0	6,585.0	6,546.6	6,543.4	7.6	23.3	180.00	0.0	-108.0	456.0	425.7	30.29	15.057		
6,700.0	6,684.7	6,645.1	6,641.6	7.7	23.6	180.00	0.0	-116.3	473.1	442.4	30.74	15.390		
6,800.0	6,784.3	6,743.6	6,739.8	7.9	24.0	180.00	0.0	-124.6	490.2	459.0	31.20	15.712		
6,900.0	6,883.9	6,842.2	6,838.0	8.0	24.3	180.00	0.0	-132.8	507.2	475.6	31.65	16.025		
7,000.0	6,983.5	6,940.7	6,936.2	8.1	24.7	180.00	0.0	-141.1	524.3	492.2	32.11	16.328		
7,100.0	7,083.1	7,039.2	7,034.3	8.2	25.0	180.00	0.0	-149.4	541.4	508.8	32.57	16.622		
7,200.0	7,182.7	7,137.8	7,132.5	8.3	25.3	180.00	0.0	-157.7	558.5	525.4	33.03	16.907		
7,300.0	7,282.4	7,236.3	7,230.7	8.4	25.7	180.00	0.0	-166.0	575.5	542.0	33.49	17.184		
7,400.0	7,382.0	7,334.8	7,328.9	8.5	26.0	180.00	0.0	-174.3	592.6	558.7	33.95	17.453		
7,500.0	7,481.6	7,433.4	7,427.1	8.6	26.4	180.00	0.0	-182.6	609.7	575.3	34.42	17.714		
7,600.0	7,581.2	7,531.9	7,525.3	8.7	26.7	180.00	0.0	-190.9	626.8	591.9	34.88	17.968		
7,700.0	7,680.8	7,630.4	7,623.4	8.9	27.1	180.00	0.0	-199.2	643.8	608.5	35.35	18.215		
7,800.0	7,780.5	7,729.0	7,721.6	9.0	27.4	180.00	0.0	-207.5	660.9	625.1	35.81	18.454		
7,900.0	7,880.1	7,827.5	7,819.8	9.1	27.8	180.00	0.0	-215.8	678.0	641.7	36.28	18.688		
8,000.0	7,979.7	7,926.0	7,918.0	9.2	28.1	180.00	0.0	-224.1	695.0	658.3	36.75	18.915		
8,100.0	8,079.3	8,024.6	8,016.2	9.3	28.4	180.00	0.0	-232.4	712.1	674.9	37.21	19.135		
8,200.0	8,178.9	8,123.1	8,114.3	9.4	28.8	180.00	0.0	-240.7	729.2	691.5	37.68	19.350		
8,300.0	8,278.6	8,221.6	8,212.5	9.6	29.1	180.00	0.0	-249.0	746.3	708.1	38.15	19.560		
8,400.0	8,378.2	8,320.2	8,310.7	9.7	29.5	180.00	0.0	-257.3	763.3	724.7	38.62	19.764		
8,500.0	8,477.8	8,418.7	8,408.9	9.8	29.8	180.00	0.0	-265.6	780.4	741.3	39.09	19.962		
8,600.0	8,577.4	8,517.2	8,507.1	9.9	30.2	180.00	0.0	-273.9	797.5	757.9	39.57	20.156		
8,700.0	8,677.0	8,615.7	8,605.3	10.0	30.5	180.00	0.0	-282.2	814.6	774.5	40.04	20.344		
8,800.0	8,776.7	8,714.3	8,703.4	10.2	30.9	180.00	0.0	-290.5	831.6	791.1	40.51	20.528		
8,900.0	8,876.3	8,812.8	8,801.6	10.3	31.2	180.00	0.0	-298.8	848.7	807.7	40.98	20.708		
9,000.0	8,975.9	8,911.3	8,899.8	10.4	31.6	180.00	0.0	-307.1	865.8	824.3	41.46	20.883		
9,100.0	9,075.5	9,009.9	8,998.0	10.5	31.9	180.00	0.0	-315.4	882.8	840.9	41.93	21.053		
9,200.0	9,175.1	9,108.4	9,096.2	10.6	32.3	180.00	0.0	-323.7	899.9	857.5	42.41	21.220		
9,300.0	9,274.8	9,206.9	9,194.3	10.8	32.6	180.00	0.0	-332.0	917.0	874.1	42.88	21.383		
9,400.0	9,374.4	9,305.5	9,292.5	10.9	33.0	180.00	0.0	-340.3	934.1	890.7	43.36	21.542		
9,500.0	9,474.0	9,404.0	9,390.7	11.0	33.3	180.00	0.0	-348.6	951.1	907.3	43.84	21.697		
9,600.0	9,573.6	9,502.5	9,488.9	11.1	33.7	180.00	0.0	-356.9	968.2	923.9	44.32	21.848		
9,700.0	9,673.2	9,601.1	9,587.1	11.2	34.0	180.00	0.0	-365.1	985.3	940.5	44.81	21.989		
9,776.4	9,749.3	9,676.3	9,662.0	11.2	34.3	180.00	0.0	-371.5	998.3	953.2	45.09	22.139		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Reference Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ROCK JELLY FED COM #701H	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' @ 3005.0usft (N 893)

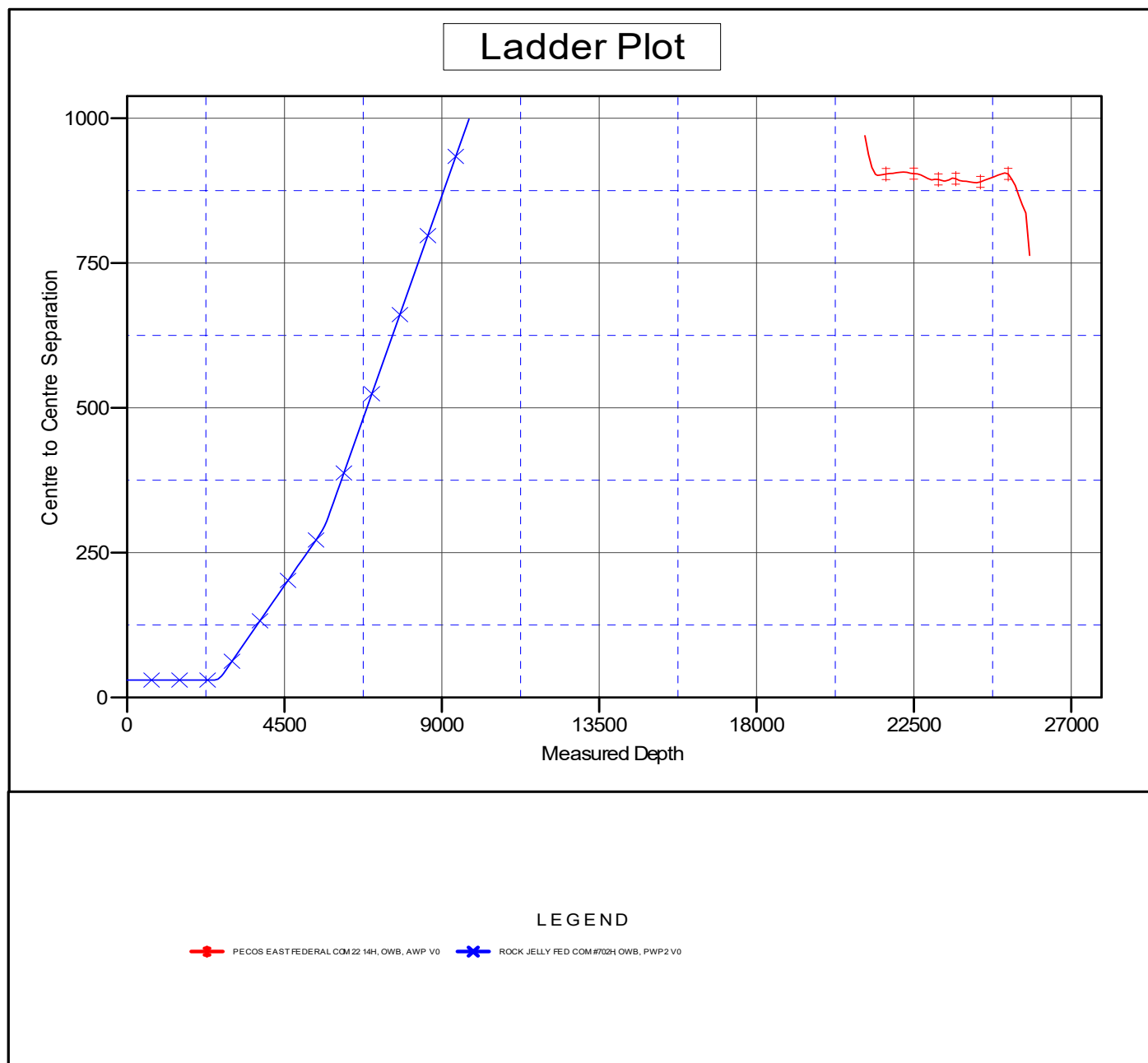
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #701H

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
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Reference Well:	ROCK JELLY FED COM #701H	Survey Calculation Method:	Minimum Curvature
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Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=27' @ 3005.0usft (N 893)

Offset Depths are relative to Offset Datum

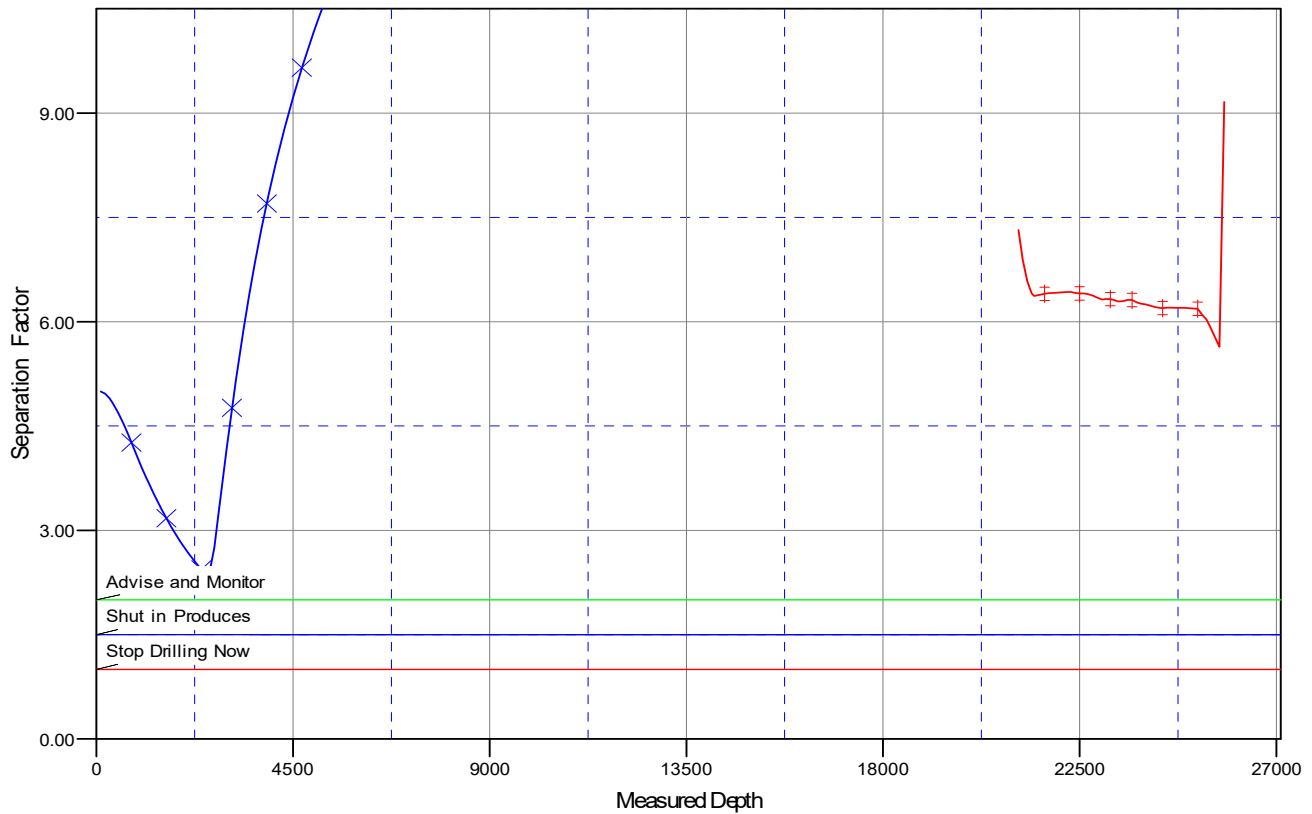
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ROCK JELLY FED COM #701H

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

Grid Convergence at Surface is: 0.19°

Separation Factor Plot



LEGEND

— Pecos East Federal Com #22 14H, OWB, AWP V0 — Rock Jelly Fed Com #701H OWB, PWP2 V0

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ROCK JELLY FEDERAL PROJECT (ATLAS 2629)

ROCK JELLY FED COM #701H

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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 #701H			
Well Position	+N/-S	0.0 usft	Northing:	392,391.50 usfi
	+E/-W	0.0 usft	Easting:	613,615.90 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation:	usfi
			Latitude:	32° 4' 41.768 N
			Longitude:	103° 57' 59.448 W
			Ground Level:	2,978.0 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	47,468.75312137

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	176.61

Survey Tool Program		Date	7/2/2020	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	9,634.9	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,640.8	25,808.5	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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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	90.00	2,600.0	0.0	1.7	0.1	2.00	2.00	0.00
2,700.0	4.00	90.00	2,699.8	0.0	7.0	0.4	2.00	2.00	0.00
2,750.0	5.00	90.00	2,749.7	0.0	10.9	0.6	2.00	2.00	0.00
Start 7026.4 hold at 2750.0 MD									
2,800.0	5.00	90.00	2,799.5	0.0	15.3	0.9	0.00	0.00	0.00
2,900.0	5.00	90.00	2,899.1	0.0	24.0	1.4	0.00	0.00	0.00
3,000.0	5.00	90.00	2,998.7	0.0	32.7	1.9	0.00	0.00	0.00
3,100.0	5.00	90.00	3,098.4	0.0	41.4	2.4	0.00	0.00	0.00
3,200.0	5.00	90.00	3,198.0	0.0	50.1	3.0	0.00	0.00	0.00
3,300.0	5.00	90.00	3,297.6	0.0	58.8	3.5	0.00	0.00	0.00
3,400.0	5.00	90.00	3,397.2	0.0	67.6	4.0	0.00	0.00	0.00
3,500.0	5.00	90.00	3,496.8	0.0	76.3	4.5	0.00	0.00	0.00
3,600.0	5.00	90.00	3,596.4	0.0	85.0	5.0	0.00	0.00	0.00
3,700.0	5.00	90.00	3,696.1	0.0	93.7	5.5	0.00	0.00	0.00
3,800.0	5.00	90.00	3,795.7	0.0	102.4	6.1	0.00	0.00	0.00
3,900.0	5.00	90.00	3,895.3	0.0	111.1	6.6	0.00	0.00	0.00
4,000.0	5.00	90.00	3,994.9	0.0	119.8	7.1	0.00	0.00	0.00
4,100.0	5.00	90.00	4,094.5	0.0	128.6	7.6	0.00	0.00	0.00
4,200.0	5.00	90.00	4,194.2	0.0	137.3	8.1	0.00	0.00	0.00
4,300.0	5.00	90.00	4,293.8	0.0	146.0	8.6	0.00	0.00	0.00
4,400.0	5.00	90.00	4,393.4	0.0	154.7	9.1	0.00	0.00	0.00
4,500.0	5.00	90.00	4,493.0	0.0	163.4	9.7	0.00	0.00	0.00
4,600.0	5.00	90.00	4,592.6	0.0	172.1	10.2	0.00	0.00	0.00
4,700.0	5.00	90.00	4,692.3	0.0	180.9	10.7	0.00	0.00	0.00
4,800.0	5.00	90.00	4,791.9	0.0	189.6	11.2	0.00	0.00	0.00
4,900.0	5.00	90.00	4,891.5	0.0	198.3	11.7	0.00	0.00	0.00
5,000.0	5.00	90.00	4,991.1	0.0	207.0	12.2	0.00	0.00	0.00
5,100.0	5.00	90.00	5,090.7	0.0	215.7	12.7	0.00	0.00	0.00
5,200.0	5.00	90.00	5,190.4	0.0	224.4	13.3	0.00	0.00	0.00
5,300.0	5.00	90.00	5,290.0	0.0	233.1	13.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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)
5,400.0	5.00	90.00	5,389.6	0.0	241.9	14.3	0.00	0.00	0.00
5,500.0	5.00	90.00	5,489.2	0.0	250.6	14.8	0.00	0.00	0.00
5,600.0	5.00	90.00	5,588.8	0.0	259.3	15.3	0.00	0.00	0.00
5,700.0	5.00	90.00	5,688.5	0.0	268.0	15.8	0.00	0.00	0.00
5,800.0	5.00	90.00	5,788.1	0.0	276.7	16.4	0.00	0.00	0.00
5,900.0	5.00	90.00	5,887.7	0.0	285.4	16.9	0.00	0.00	0.00
6,000.0	5.00	90.00	5,987.3	0.0	294.2	17.4	0.00	0.00	0.00
6,100.0	5.00	90.00	6,086.9	0.0	302.9	17.9	0.00	0.00	0.00
6,200.0	5.00	90.00	6,186.6	0.0	311.6	18.4	0.00	0.00	0.00
6,300.0	5.00	90.00	6,286.2	0.0	320.3	18.9	0.00	0.00	0.00
6,400.0	5.00	90.00	6,385.8	0.0	329.0	19.4	0.00	0.00	0.00
6,500.0	5.00	90.00	6,485.4	0.0	337.7	20.0	0.00	0.00	0.00
6,600.0	5.00	90.00	6,585.0	0.0	346.5	20.5	0.00	0.00	0.00
6,700.0	5.00	90.00	6,684.7	0.0	355.2	21.0	0.00	0.00	0.00
6,800.0	5.00	90.00	6,784.3	0.0	363.9	21.5	0.00	0.00	0.00
6,900.0	5.00	90.00	6,883.9	0.0	372.6	22.0	0.00	0.00	0.00
7,000.0	5.00	90.00	6,983.5	0.0	381.3	22.5	0.00	0.00	0.00
7,100.0	5.00	90.00	7,083.1	0.0	390.0	23.0	0.00	0.00	0.00
7,200.0	5.00	90.00	7,182.7	0.0	398.7	23.6	0.00	0.00	0.00
7,300.0	5.00	90.00	7,282.4	0.0	407.5	24.1	0.00	0.00	0.00
7,400.0	5.00	90.00	7,382.0	0.0	416.2	24.6	0.00	0.00	0.00
7,500.0	5.00	90.00	7,481.6	0.0	424.9	25.1	0.00	0.00	0.00
7,600.0	5.00	90.00	7,581.2	0.0	433.6	25.6	0.00	0.00	0.00
7,700.0	5.00	90.00	7,680.8	0.0	442.3	26.1	0.00	0.00	0.00
7,800.0	5.00	90.00	7,780.5	0.0	451.0	26.7	0.00	0.00	0.00
7,900.0	5.00	90.00	7,880.1	0.0	459.8	27.2	0.00	0.00	0.00
8,000.0	5.00	90.00	7,979.7	0.0	468.5	27.7	0.00	0.00	0.00
8,100.0	5.00	90.00	8,079.3	0.0	477.2	28.2	0.00	0.00	0.00
8,200.0	5.00	90.00	8,178.9	0.0	485.9	28.7	0.00	0.00	0.00
8,300.0	5.00	90.00	8,278.6	0.0	494.6	29.2	0.00	0.00	0.00
8,400.0	5.00	90.00	8,378.2	0.0	503.3	29.7	0.00	0.00	0.00
8,500.0	5.00	90.00	8,477.8	0.0	512.0	30.3	0.00	0.00	0.00
8,600.0	5.00	90.00	8,577.4	0.0	520.8	30.8	0.00	0.00	0.00
8,700.0	5.00	90.00	8,677.0	0.0	529.5	31.3	0.00	0.00	0.00
8,800.0	5.00	90.00	8,776.7	0.0	538.2	31.8	0.00	0.00	0.00
8,900.0	5.00	90.00	8,876.3	0.0	546.9	32.3	0.00	0.00	0.00
9,000.0	5.00	90.00	8,975.9	0.0	555.6	32.8	0.00	0.00	0.00
9,100.0	5.00	90.00	9,075.5	0.0	564.3	33.3	0.00	0.00	0.00
9,200.0	5.00	90.00	9,175.1	0.0	573.1	33.9	0.00	0.00	0.00
9,300.0	5.00	90.00	9,274.8	0.0	581.8	34.4	0.00	0.00	0.00
9,400.0	5.00	90.00	9,374.4	0.0	590.5	34.9	0.00	0.00	0.00
9,500.0	5.00	90.00	9,474.0	0.0	599.2	35.4	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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)
9,600.0	5.00	90.00	9,573.6	0.0	607.9	35.9	0.00	0.00	0.00
9,700.0	5.00	90.00	9,673.2	0.0	616.6	36.4	0.00	0.00	0.00
9,776.4	5.00	90.00	9,749.3	0.0	623.3	36.8	0.00	0.00	0.00
Start DLS 10.00 TFO 83.01									
9,800.0	5.78	113.97	9,772.8	-0.5	625.4	37.4	10.00	3.32	101.39
9,900.0	13.88	152.40	9,871.4	-13.2	635.6	50.7	10.00	8.09	38.43
10,000.0	23.48	161.45	9,966.0	-42.8	647.5	81.0	10.00	9.60	9.05
10,100.0	33.30	165.39	10,053.9	-88.3	660.8	127.2	10.00	9.83	3.94
10,200.0	43.20	167.68	10,132.3	-148.5	675.1	188.1	10.00	9.90	2.29
10,300.0	53.14	169.25	10,198.9	-221.4	689.9	261.8	10.00	9.93	1.57
10,400.0	63.08	170.45	10,251.7	-304.9	704.8	346.0	10.00	9.95	1.21
10,500.0	73.04	171.46	10,289.0	-396.4	719.3	438.2	10.00	9.96	1.01
10,600.0	83.00	172.37	10,309.7	-493.1	733.0	535.6	10.00	9.96	0.91
10,672.6	90.23	173.00	10,314.0	-564.9	742.3	607.8	10.00	9.96	0.87
Start DLS 2.00 TFO 90.06									
10,700.0	90.23	173.55	10,313.9	-592.2	745.5	635.2	2.00	0.00	2.00
10,800.0	90.23	175.55	10,313.5	-691.7	755.0	735.1	2.00	0.00	2.00
10,888.3	90.22	177.32	10,313.2	-779.9	760.5	823.5	2.00	0.00	2.00
Start 4382.0 hold at 10888.3 MD									
10,900.0	90.22	177.32	10,313.1	-791.5	761.0	835.1	0.00	0.00	0.00
11,000.0	90.22	177.32	10,312.7	-891.4	765.7	935.1	0.00	0.00	0.00
11,100.0	90.22	177.32	10,312.3	-991.3	770.4	1,035.1	0.00	0.00	0.00
11,200.0	90.22	177.32	10,311.9	-1,091.2	775.1	1,135.1	0.00	0.00	0.00
11,300.0	90.22	177.32	10,311.6	-1,191.1	779.7	1,235.1	0.00	0.00	0.00
11,400.0	90.22	177.32	10,311.2	-1,291.0	784.4	1,335.1	0.00	0.00	0.00
11,500.0	90.22	177.32	10,310.8	-1,390.9	789.1	1,435.1	0.00	0.00	0.00
11,600.0	90.22	177.32	10,310.4	-1,490.8	793.8	1,535.1	0.00	0.00	0.00
11,700.0	90.22	177.32	10,310.0	-1,590.6	798.5	1,635.1	0.00	0.00	0.00
11,800.0	90.22	177.32	10,309.6	-1,690.5	803.2	1,735.0	0.00	0.00	0.00
11,900.0	90.22	177.32	10,309.2	-1,790.4	807.9	1,835.0	0.00	0.00	0.00
12,000.0	90.22	177.32	10,308.8	-1,890.3	812.5	1,935.0	0.00	0.00	0.00
12,100.0	90.22	177.32	10,308.4	-1,990.2	817.2	2,035.0	0.00	0.00	0.00
12,200.0	90.22	177.32	10,308.0	-2,090.1	821.9	2,135.0	0.00	0.00	0.00
12,300.0	90.22	177.32	10,307.6	-2,190.0	826.6	2,235.0	0.00	0.00	0.00
12,400.0	90.22	177.32	10,307.2	-2,289.9	831.3	2,335.0	0.00	0.00	0.00
12,500.0	90.22	177.32	10,306.9	-2,389.8	836.0	2,435.0	0.00	0.00	0.00
12,600.0	90.22	177.32	10,306.5	-2,489.7	840.6	2,535.0	0.00	0.00	0.00
12,700.0	90.22	177.32	10,306.1	-2,589.5	845.3	2,635.0	0.00	0.00	0.00
12,800.0	90.22	177.32	10,305.7	-2,689.4	850.0	2,735.0	0.00	0.00	0.00
12,900.0	90.22	177.32	10,305.3	-2,789.3	854.7	2,835.0	0.00	0.00	0.00
13,000.0	90.22	177.32	10,304.9	-2,889.2	859.4	2,934.9	0.00	0.00	0.00
13,100.0	90.22	177.32	10,304.5	-2,989.1	864.1	3,034.9	0.00	0.00	0.00
13,200.0	90.22	177.32	10,304.1	-3,089.0	868.7	3,134.9	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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)
13,300.0	90.22	177.32	10,303.7	-3,188.9	873.4	3,234.9	0.00	0.00	0.00
13,400.0	90.22	177.32	10,303.3	-3,288.8	878.1	3,334.9	0.00	0.00	0.00
13,500.0	90.22	177.32	10,302.9	-3,388.7	882.8	3,434.9	0.00	0.00	0.00
13,600.0	90.22	177.32	10,302.5	-3,488.5	887.5	3,534.9	0.00	0.00	0.00
13,700.0	90.22	177.32	10,302.2	-3,588.4	892.2	3,634.9	0.00	0.00	0.00
13,800.0	90.22	177.32	10,301.8	-3,688.3	896.8	3,734.9	0.00	0.00	0.00
13,900.0	90.22	177.32	10,301.4	-3,788.2	901.5	3,834.9	0.00	0.00	0.00
14,000.0	90.22	177.32	10,301.0	-3,888.1	906.2	3,934.9	0.00	0.00	0.00
14,100.0	90.22	177.32	10,300.6	-3,988.0	910.9	4,034.9	0.00	0.00	0.00
14,200.0	90.22	177.32	10,300.2	-4,087.9	915.6	4,134.8	0.00	0.00	0.00
14,300.0	90.22	177.32	10,299.8	-4,187.8	920.3	4,234.8	0.00	0.00	0.00
14,400.0	90.22	177.32	10,299.4	-4,287.7	924.9	4,334.8	0.00	0.00	0.00
14,500.0	90.22	177.32	10,299.0	-4,387.6	929.6	4,434.8	0.00	0.00	0.00
14,600.0	90.22	177.32	10,298.6	-4,487.4	934.3	4,534.8	0.00	0.00	0.00
14,700.0	90.22	177.32	10,298.2	-4,587.3	939.0	4,634.8	0.00	0.00	0.00
14,800.0	90.22	177.32	10,297.8	-4,687.2	943.7	4,734.8	0.00	0.00	0.00
14,900.0	90.22	177.32	10,297.5	-4,787.1	948.4	4,834.8	0.00	0.00	0.00
15,000.0	90.22	177.32	10,297.1	-4,887.0	953.0	4,934.8	0.00	0.00	0.00
15,100.0	90.22	177.32	10,296.7	-4,986.9	957.7	5,034.8	0.00	0.00	0.00
15,200.0	90.22	177.32	10,296.3	-5,086.8	962.4	5,134.8	0.00	0.00	0.00
15,270.4	90.22	177.32	10,296.0	-5,157.1	965.7	5,205.1	0.00	0.00	0.00
Start DLS 2.00 TFO 89.92									
15,300.0	90.23	177.91	10,295.9	-5,186.7	966.9	5,234.7	2.00	0.00	2.00
15,400.0	90.23	179.91	10,295.5	-5,286.7	968.8	5,334.7	2.00	0.00	2.00
15,452.3	90.23	180.95	10,295.3	-5,339.0	968.4	5,386.9	2.00	0.00	2.00
Start 2496.1 hold at 15452.3 MD									
15,500.0	90.23	180.95	10,295.1	-5,386.6	967.7	5,434.4	0.00	0.00	0.00
15,600.0	90.23	180.95	10,294.7	-5,486.6	966.0	5,534.1	0.00	0.00	0.00
15,700.0	90.23	180.95	10,294.3	-5,586.6	964.3	5,633.8	0.00	0.00	0.00
15,800.0	90.23	180.95	10,293.9	-5,686.6	962.7	5,733.5	0.00	0.00	0.00
15,900.0	90.23	180.95	10,293.5	-5,786.6	961.0	5,833.3	0.00	0.00	0.00
16,000.0	90.23	180.95	10,293.1	-5,886.6	959.3	5,933.0	0.00	0.00	0.00
16,100.0	90.23	180.95	10,292.7	-5,986.6	957.7	6,032.7	0.00	0.00	0.00
16,200.0	90.23	180.95	10,292.3	-6,086.5	956.0	6,132.4	0.00	0.00	0.00
16,300.0	90.23	180.95	10,291.9	-6,186.5	954.3	6,232.1	0.00	0.00	0.00
16,400.0	90.23	180.95	10,291.5	-6,286.5	952.7	6,331.8	0.00	0.00	0.00
16,500.0	90.23	180.95	10,291.1	-6,386.5	951.0	6,431.5	0.00	0.00	0.00
16,600.0	90.23	180.95	10,290.7	-6,486.5	949.3	6,531.2	0.00	0.00	0.00
16,700.0	90.23	180.95	10,290.3	-6,586.5	947.7	6,631.0	0.00	0.00	0.00
16,800.0	90.23	180.95	10,289.9	-6,686.5	946.0	6,730.7	0.00	0.00	0.00
16,900.0	90.23	180.95	10,289.5	-6,786.4	944.3	6,830.4	0.00	0.00	0.00
17,000.0	90.23	180.95	10,289.1	-6,886.4	942.7	6,930.1	0.00	0.00	0.00
17,100.0	90.23	180.95	10,288.7	-6,986.4	941.0	7,029.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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)
17,200.0	90.23	180.95	10,288.3	-7,086.4	939.3	7,129.5	0.00	0.00	0.00
17,300.0	90.23	180.95	10,287.9	-7,186.4	937.7	7,229.2	0.00	0.00	0.00
17,400.0	90.23	180.95	10,287.5	-7,286.4	936.0	7,328.9	0.00	0.00	0.00
17,500.0	90.23	180.95	10,287.1	-7,386.4	934.3	7,428.7	0.00	0.00	0.00
17,600.0	90.23	180.95	10,286.7	-7,486.3	932.7	7,528.4	0.00	0.00	0.00
17,700.0	90.23	180.95	10,286.3	-7,586.3	931.0	7,628.1	0.00	0.00	0.00
17,800.0	90.23	180.95	10,285.9	-7,686.3	929.3	7,727.8	0.00	0.00	0.00
17,900.0	90.23	180.95	10,285.5	-7,786.3	927.7	7,827.5	0.00	0.00	0.00
17,948.5	90.23	180.95	10,285.3	-7,834.7	926.8	7,875.8	0.00	0.00	0.00
Start DLS 2.00 TFO -90.06									
17,995.1	90.23	180.02	10,285.1	-7,881.4	926.4	7,922.3	2.00	0.00	-2.00
Start 2642.3 hold at 17995.1 MD									
18,000.0	90.23	180.02	10,285.1	-7,886.3	926.4	7,927.2	0.00	0.00	0.00
18,100.0	90.23	180.02	10,284.7	-7,986.3	926.4	8,027.1	0.00	0.00	0.00
18,200.0	90.23	180.02	10,284.3	-8,086.3	926.4	8,126.9	0.00	0.00	0.00
18,300.0	90.23	180.02	10,283.9	-8,186.3	926.3	8,226.7	0.00	0.00	0.00
18,400.0	90.23	180.02	10,283.5	-8,286.3	926.3	8,326.5	0.00	0.00	0.00
18,500.0	90.23	180.02	10,283.1	-8,386.3	926.2	8,426.4	0.00	0.00	0.00
18,600.0	90.23	180.02	10,282.7	-8,486.3	926.2	8,526.2	0.00	0.00	0.00
18,700.0	90.23	180.02	10,282.3	-8,586.3	926.2	8,626.0	0.00	0.00	0.00
18,800.0	90.23	180.02	10,281.9	-8,686.3	926.1	8,725.8	0.00	0.00	0.00
18,900.0	90.23	180.02	10,281.5	-8,786.3	926.1	8,825.6	0.00	0.00	0.00
19,000.0	90.23	180.02	10,281.1	-8,886.3	926.0	8,925.5	0.00	0.00	0.00
19,100.0	90.23	180.02	10,280.7	-8,986.3	926.0	9,025.3	0.00	0.00	0.00
19,200.0	90.23	180.02	10,280.3	-9,086.3	926.0	9,125.1	0.00	0.00	0.00
19,300.0	90.23	180.02	10,279.9	-9,186.3	925.9	9,224.9	0.00	0.00	0.00
19,400.0	90.23	180.02	10,279.5	-9,286.3	925.9	9,324.8	0.00	0.00	0.00
19,500.0	90.23	180.02	10,279.1	-9,386.3	925.9	9,424.6	0.00	0.00	0.00
19,600.0	90.23	180.02	10,278.7	-9,486.3	925.8	9,524.4	0.00	0.00	0.00
19,700.0	90.23	180.02	10,278.3	-9,586.3	925.8	9,624.2	0.00	0.00	0.00
19,800.0	90.23	180.02	10,277.9	-9,686.3	925.7	9,724.0	0.00	0.00	0.00
19,900.0	90.23	180.02	10,277.5	-9,786.3	925.7	9,823.9	0.00	0.00	0.00
20,000.0	90.23	180.02	10,277.1	-9,886.3	925.7	9,923.7	0.00	0.00	0.00
20,100.0	90.23	180.02	10,276.7	-9,986.3	925.6	10,023.5	0.00	0.00	0.00
20,200.0	90.23	180.02	10,276.3	-10,086.3	925.6	10,123.3	0.00	0.00	0.00
20,300.0	90.23	180.02	10,275.9	-10,186.3	925.5	10,223.2	0.00	0.00	0.00
20,400.0	90.23	180.02	10,275.5	-10,286.3	925.5	10,323.0	0.00	0.00	0.00
20,500.0	90.23	180.02	10,275.1	-10,386.3	925.5	10,422.8	0.00	0.00	0.00
20,600.0	90.23	180.02	10,274.7	-10,486.3	925.4	10,522.6	0.00	0.00	0.00
20,637.4	90.23	180.02	10,274.6	-10,523.7	925.4	10,559.9	0.00	0.00	0.00
Start DLS 2.00 TFO -90.16									
20,649.2	90.23	179.79	10,274.6	-10,535.4	925.4	10,571.7	2.00	-0.01	-2.00
Start 2685.1 hold at 20649.2 MD									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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)
20,700.0	90.23	179.79	10,274.4	-10,586.3	925.6	10,622.5	0.00	0.00	0.00
20,800.0	90.23	179.79	10,274.0	-10,686.3	926.0	10,722.3	0.00	0.00	0.00
20,900.0	90.23	179.79	10,273.6	-10,786.3	926.4	10,822.1	0.00	0.00	0.00
21,000.0	90.23	179.79	10,273.2	-10,886.3	926.7	10,922.0	0.00	0.00	0.00
21,100.0	90.23	179.79	10,272.8	-10,986.3	927.1	11,021.8	0.00	0.00	0.00
21,200.0	90.23	179.79	10,272.4	-11,086.3	927.5	11,121.7	0.00	0.00	0.00
21,300.0	90.23	179.79	10,272.0	-11,186.3	927.8	11,221.5	0.00	0.00	0.00
21,400.0	90.23	179.79	10,271.6	-11,286.2	928.2	11,321.4	0.00	0.00	0.00
21,500.0	90.23	179.79	10,271.2	-11,386.2	928.6	11,421.2	0.00	0.00	0.00
21,600.0	90.23	179.79	10,270.8	-11,486.2	929.0	11,521.1	0.00	0.00	0.00
21,700.0	90.23	179.79	10,270.4	-11,586.2	929.3	11,620.9	0.00	0.00	0.00
21,800.0	90.23	179.79	10,270.0	-11,686.2	929.7	11,720.8	0.00	0.00	0.00
21,900.0	90.23	179.79	10,269.6	-11,786.2	930.1	11,820.6	0.00	0.00	0.00
22,000.0	90.23	179.79	10,269.2	-11,886.2	930.4	11,920.5	0.00	0.00	0.00
22,100.0	90.23	179.79	10,268.8	-11,986.2	930.8	12,020.3	0.00	0.00	0.00
22,200.0	90.23	179.79	10,268.4	-12,086.2	931.2	12,120.1	0.00	0.00	0.00
22,300.0	90.23	179.79	10,268.0	-12,186.2	931.6	12,220.0	0.00	0.00	0.00
22,400.0	90.23	179.79	10,267.6	-12,286.2	931.9	12,319.8	0.00	0.00	0.00
22,500.0	90.23	179.79	10,267.2	-12,386.2	932.3	12,419.7	0.00	0.00	0.00
22,600.0	90.23	179.79	10,266.8	-12,486.2	932.7	12,519.5	0.00	0.00	0.00
22,700.0	90.23	179.79	10,266.4	-12,586.2	933.0	12,619.4	0.00	0.00	0.00
22,800.0	90.23	179.79	10,266.0	-12,686.2	933.4	12,719.2	0.00	0.00	0.00
22,900.0	90.23	179.79	10,265.6	-12,786.2	933.8	12,819.1	0.00	0.00	0.00
23,000.0	90.23	179.79	10,265.2	-12,886.2	934.2	12,918.9	0.00	0.00	0.00
23,100.0	90.23	179.79	10,264.8	-12,986.2	934.5	13,018.8	0.00	0.00	0.00
23,200.0	90.23	179.79	10,264.4	-13,086.2	934.9	13,118.6	0.00	0.00	0.00
23,300.0	90.23	179.79	10,264.0	-13,186.2	935.3	13,218.4	0.00	0.00	0.00
23,334.3	90.23	179.79	10,263.9	-13,220.5	935.4	13,252.7	0.00	0.00	0.00
Start DLS 2.00 TFO 89.69									
23,352.4	90.23	180.15	10,263.8	-13,238.6	935.4	13,270.8	2.00	0.01	2.00
Start 2456.1 hold at 23352.4 MD									
23,400.0	90.23	180.15	10,263.6	-13,286.2	935.3	13,318.3	0.00	0.00	0.00
23,500.0	90.23	180.15	10,263.2	-13,386.2	935.0	13,418.1	0.00	0.00	0.00
23,600.0	90.23	180.15	10,262.8	-13,486.2	934.8	13,517.9	0.00	0.00	0.00
23,700.0	90.23	180.15	10,262.4	-13,586.2	934.5	13,617.7	0.00	0.00	0.00
23,800.0	90.23	180.15	10,262.0	-13,686.2	934.2	13,717.5	0.00	0.00	0.00
23,900.0	90.23	180.15	10,261.6	-13,786.2	934.0	13,817.3	0.00	0.00	0.00
24,000.0	90.23	180.15	10,261.2	-13,886.2	933.7	13,917.1	0.00	0.00	0.00
24,100.0	90.23	180.15	10,260.8	-13,986.2	933.5	14,016.9	0.00	0.00	0.00
24,200.0	90.23	180.15	10,260.4	-14,086.2	933.2	14,116.7	0.00	0.00	0.00
24,300.0	90.23	180.15	10,260.0	-14,186.2	932.9	14,216.5	0.00	0.00	0.00
24,400.0	90.23	180.15	10,259.6	-14,286.2	932.7	14,316.4	0.00	0.00	0.00
24,500.0	90.23	180.15	10,259.2	-14,386.2	932.4	14,416.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	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)
24,600.0	90.23	180.15	10,258.8	-14,486.2	932.2	14,516.0	0.00	0.00	0.00
24,700.0	90.23	180.15	10,258.4	-14,586.2	931.9	14,615.8	0.00	0.00	0.00
24,800.0	90.23	180.15	10,258.0	-14,686.2	931.6	14,715.6	0.00	0.00	0.00
24,900.0	90.23	180.15	10,257.6	-14,786.2	931.4	14,815.4	0.00	0.00	0.00
25,000.0	90.23	180.15	10,257.2	-14,886.2	931.1	14,915.2	0.00	0.00	0.00
25,100.0	90.23	180.15	10,256.8	-14,986.2	930.8	15,015.0	0.00	0.00	0.00
25,200.0	90.23	180.15	10,256.4	-15,086.2	930.6	15,114.8	0.00	0.00	0.00
25,300.0	90.23	180.15	10,256.0	-15,186.2	930.3	15,214.6	0.00	0.00	0.00
25,400.0	90.23	180.15	10,255.6	-15,286.2	930.1	15,314.4	0.00	0.00	0.00
25,500.0	90.23	180.15	10,255.2	-15,386.2	929.8	15,414.3	0.00	0.00	0.00
25,600.0	90.23	180.15	10,254.8	-15,486.2	929.5	15,514.1	0.00	0.00	0.00
25,700.0	90.23	180.15	10,254.4	-15,586.2	929.3	15,613.9	0.00	0.00	0.00
25,800.0	90.23	180.15	10,254.0	-15,686.2	929.0	15,713.7	0.00	0.00	0.00
25,808.5	90.23	180.15	10,254.0	-15,694.7	929.0	15,722.2	0.00	0.00	0.00
TD at 25808.5									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP (ROCK JELLY FE	0.00	0.00	10,254.0	-15,564.5	927.3	376,827.00	614,543.20	32° 2' 7.704 N	103° 57' 49.290 W
- plan misses target center by 2.1usft at 25678.3usft MD (10254.5 TVD, -15564.5 N, 929.3 E)									
- Point									
PBHL (ROCK JELLY I	0.23	0.15	10,254.0	-15,694.7	929.0	376,696.80	614,544.90	32° 2' 6.415 N	103° 57' 49.275 W
- plan hits target center									
- Rectangle (sides W100.0 H2,469.3 D20.0)									
T4 (ROCK JELLY FEI	0.23	359.79	10,263.9	-13,220.5	935.4	379,170.97	614,551.30	32° 2' 30.900 N	103° 57' 49.102 W
- plan hits target center									
- Rectangle (sides W100.0 H2,692.7 D20.0)									
T3 (ROCK JELLY FEI	0.22	0.02	10,274.6	-10,523.7	925.4	381,867.84	614,541.31	32° 2' 57.590 N	103° 57' 49.111 W
- plan hits target center									
- Rectangle (sides W100.0 H2,684.2 D20.0)									
T2 (ROCK JELLY FEI	0.22	0.96	10,285.3	-7,834.7	926.8	384,556.75	614,542.75	32° 3' 24.201 N	103° 57' 48.987 W
- plan hits target center									
- Rectangle (sides W100.0 H2,671.0 D20.0)									
T1 (ROCK JELLY FEI	0.22	357.31	10,296.0	-5,157.1	965.7	387,234.44	614,581.60	32° 3' 50.699 N	103° 57' 48.429 W
- plan hits target center									
- Rectangle (sides W100.0 H5,160.0 D20.0)									
FTP (ROCK JELLY FI	0.00	0.00	10,314.0	-117.0	731.4	392,274.50	614,347.30	32° 4' 40.585 N	103° 57' 50.952 W
- plan misses target center by 160.8usft at 10300.0usft MD (10198.9 TVD, -221.4 N, 689.9 E)									
- Circle (radius 50.0)									

Concho Resources LLC

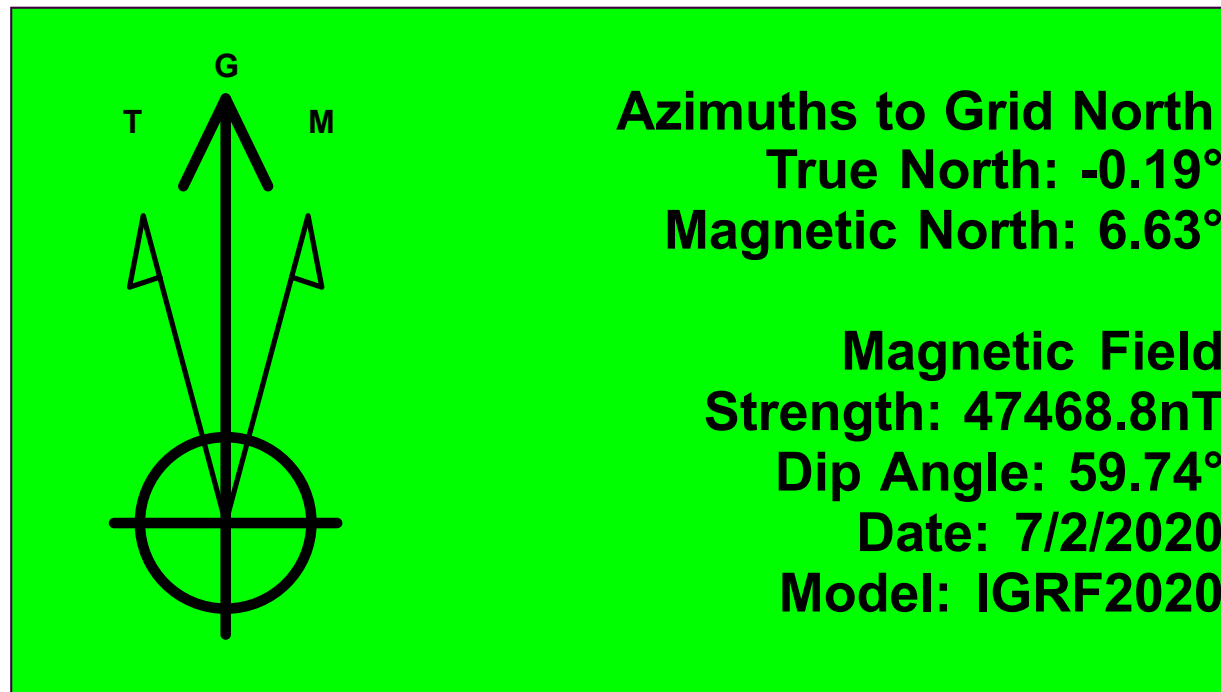
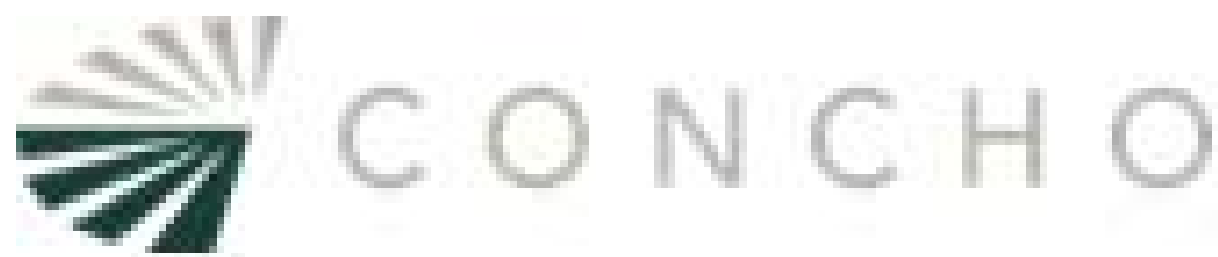
Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ROCK JELLY FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=27' @ 3005.0usft (N 893)
Site:	ROCK JELLY FEDERAL PROJECT (ATLAS 2629)	MD Reference:	KB=27' @ 3005.0usft (N 893)
Well:	ROCK JELLY FED COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2750	2750	0	11	Start 7026.4 hold at 2750.0 MD
9776	9749	0	623	Start DLS 10.00 TFO 83.01
10,673	10,314	-565	742	Start DLS 2.00 TFO 90.06
10,888	10,313	-780	760	Start 4382.0 hold at 10888.3 MD
15,270	10,296	-5157	966	Start DLS 2.00 TFO 89.92
15,452	10,295	-5339	968	Start 2496.1 hold at 15452.3 MD
17,948	10,285	-7835	927	Start DLS 2.00 TFO -90.06
17,995	10,285	-7881	926	Start 2642.3 hold at 17995.1 MD
20,637	10,275	-10,524	925	Start DLS 2.00 TFO -90.16
20,649	10,275	-10,535	925	Start 2685.1 hold at 20649.2 MD
23,334	10,264	-13,221	935	Start DLS 2.00 TFO 89.69
23,352	10,264	-13,239	935	Start 2456.1 hold at 23352.4 MD
25,809	10,254	-15,695	929	TD at 25808.5

Checked By: _____ Approved By: _____ Date: _____



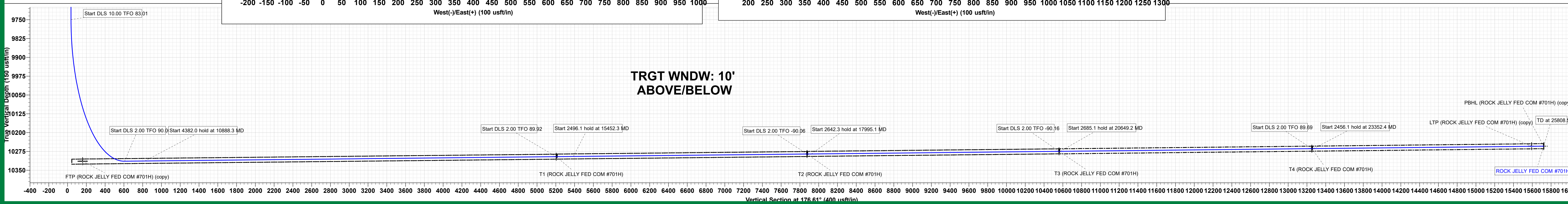
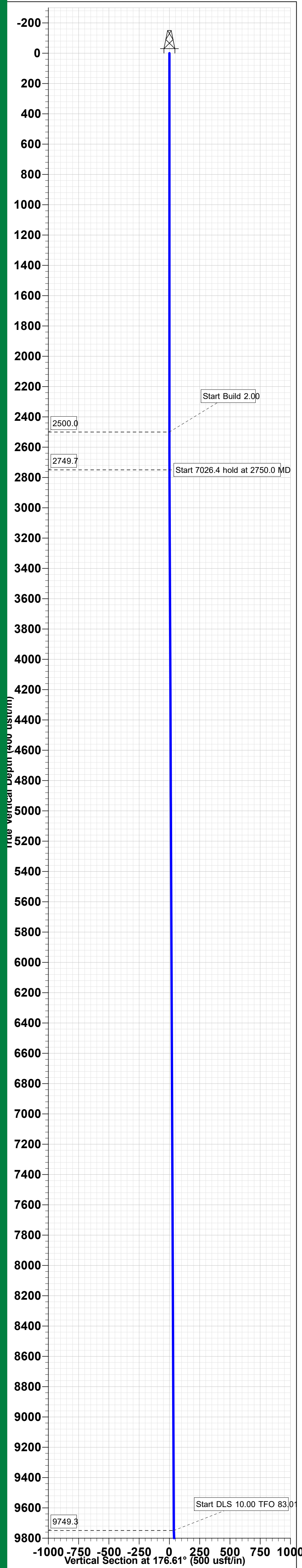
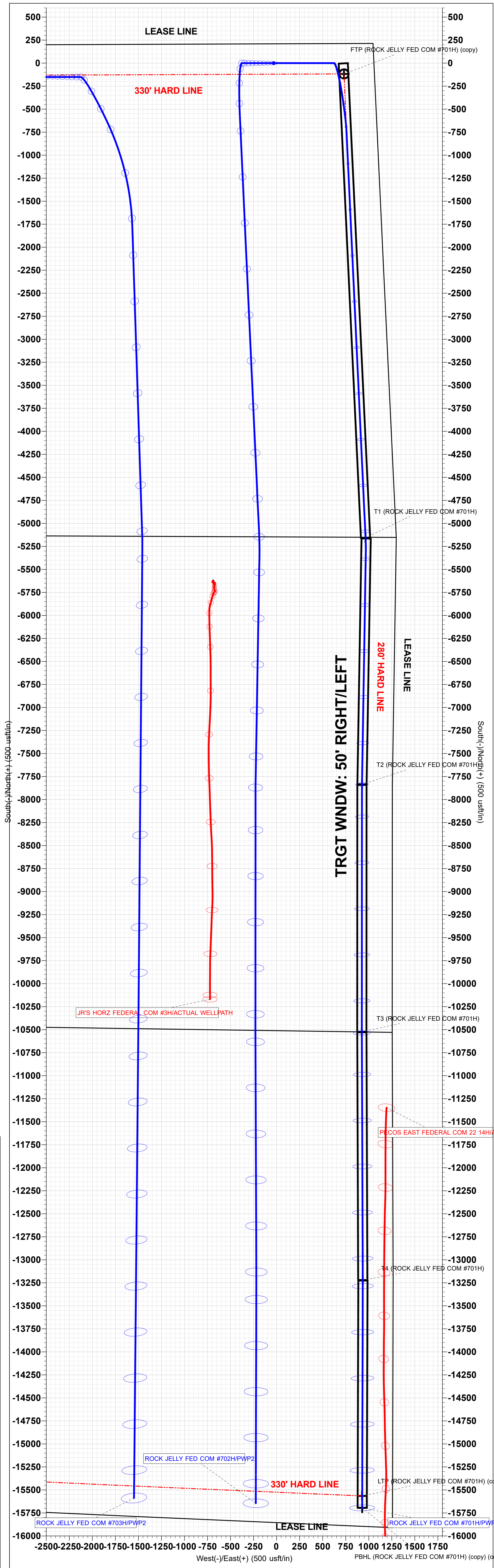
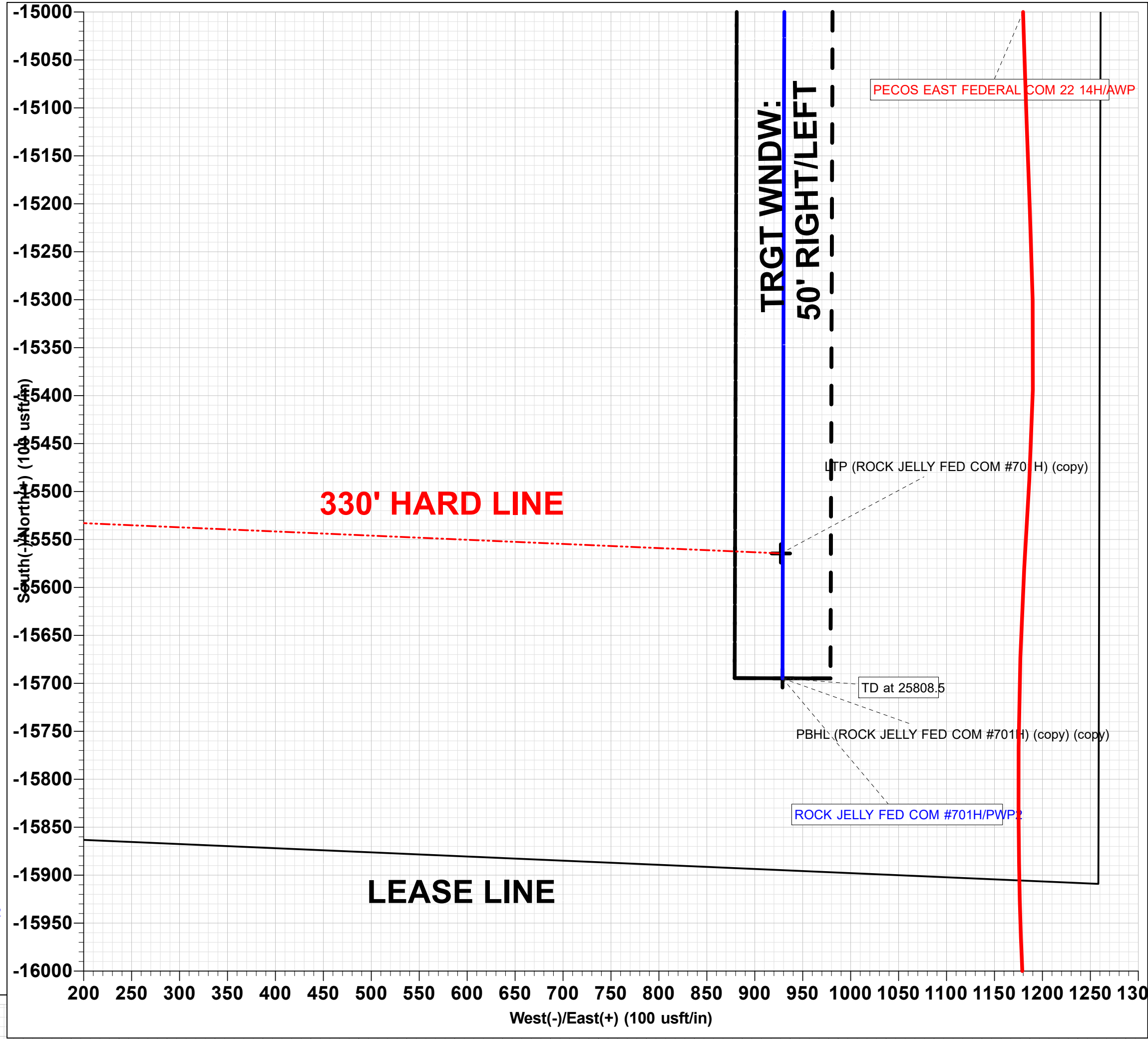
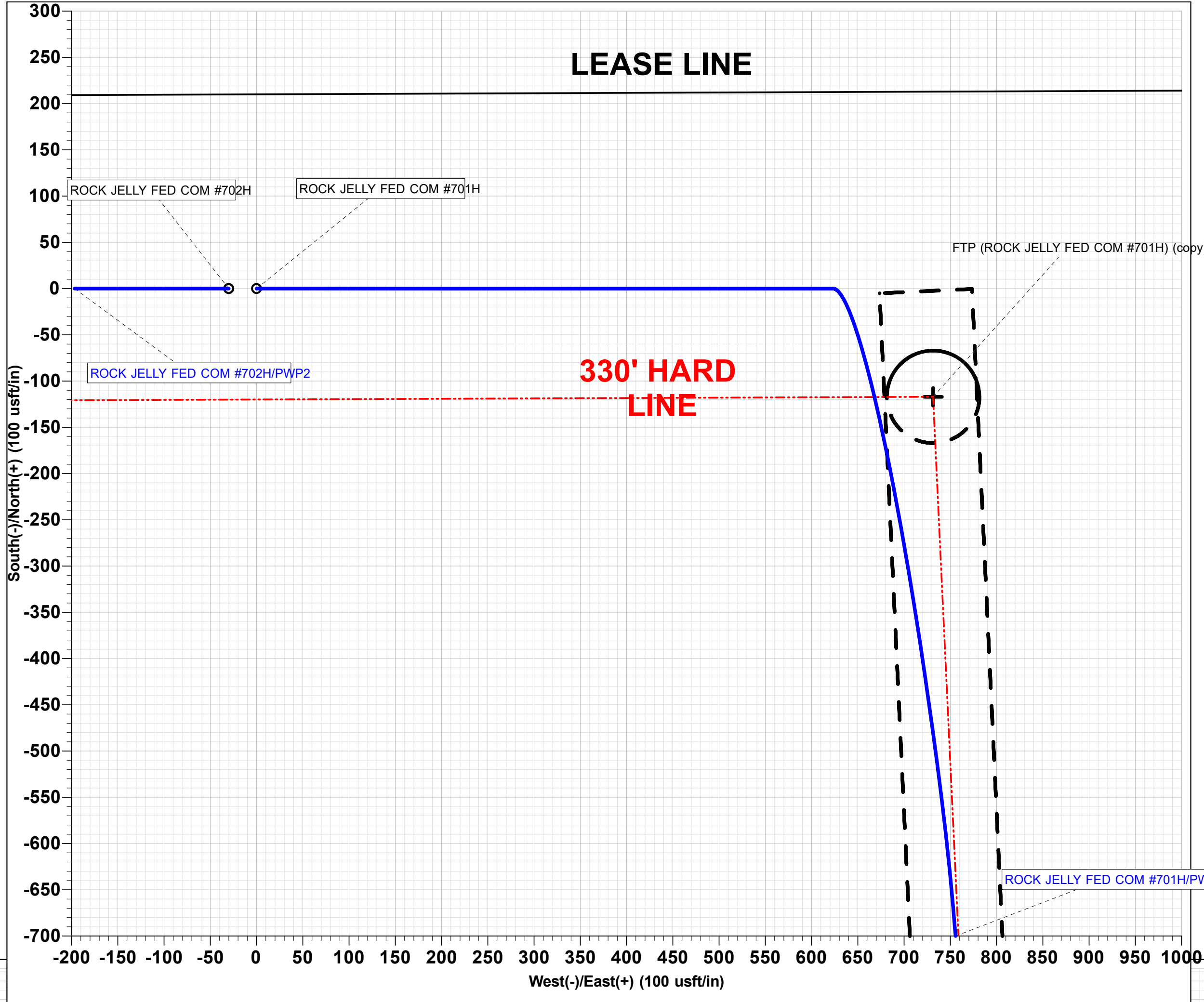
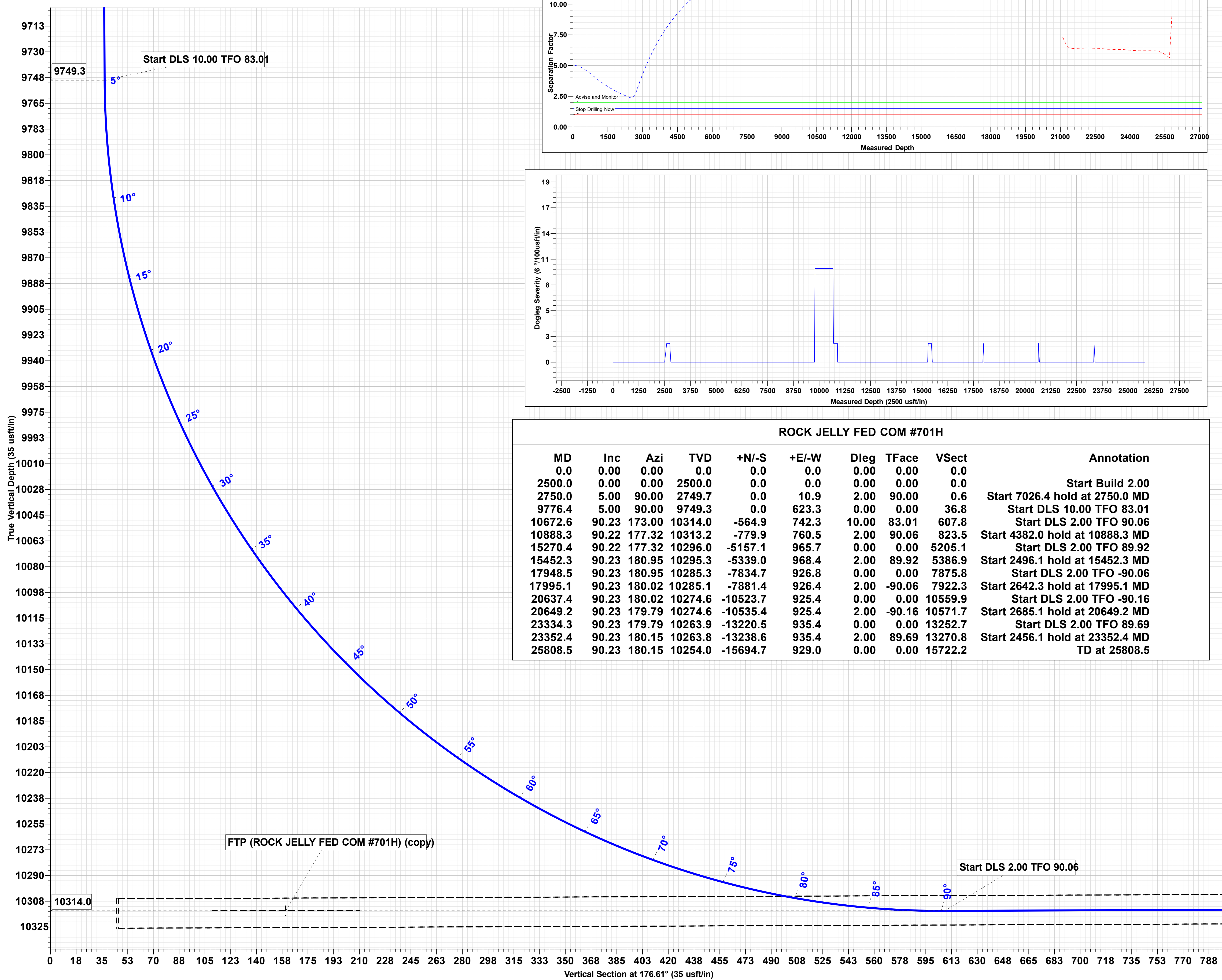
Project: ATLAS PROSPECT (NM-E)
Site: ROCK JELLY FEDERAL PROJECT (ATLAS 2629)
Well: ROCK JELLY FED COM #701H
Wellbore: OWB
Design: PWP2
GL: 2978.0
KB=27° @ 3005.0usft (N 893)

WELL DETAILS: ROCK JELLY FED COM #701H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	392391.50	613615.90	32° 4' 41.768 N	103° 57' 59.448 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (ROCK JELLY FED COM #701H) (copy)	10254.0	-15564.5	927.3	376827.00	614543.20	32° 2' 7.704 N	103° 57' 49.290 W
PBHL (ROCK JELLY FED COM #701H) (copy) (copy)	10254.0	-15694.7	929.0	376896.80	614544.90	32° 2' 6.415 N	103° 57' 49.275 W
T4 (ROCK JELLY FED COM #701H)	10263.9	-13220.5	935.4	379170.97	614551.30	32° 2' 30.900 N	103° 57' 49.102 W
T3 (ROCK JELLY FED COM #701H)	10274.6	-10523.7	925.4	381867.84	614541.30	32° 2' 57.590 N	103° 57' 49.111 W
T2 (ROCK JELLY FED COM #701H)	10285.3	-7834.7	926.8	384556.75	614542.74	32° 3' 24.201 N	103° 57' 48.987 W
T1 (ROCK JELLY FED COM #701H)	10296.0	-5157.1	965.7	387234.44	614581.60	32° 3' 50.699 N	103° 57' 48.429 W
FTP (ROCK JELLY FED COM #701H) (copy)	10314.0	-117.0	731.4	392274.50	614347.30	32° 4' 40.585 N	103° 57' 50.952 W



TRGT WNDW: 10'
ABOVE/BELOW