

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
Operator Copy

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.

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM132949
2. Name of Operator COG OPERATING LLC Contact: MAYTE X REYES E-Mail: mreyes1@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287	3b. Phone No. (include area code) Ph: 575-748-6945	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T24S R35E 270FSL 360FWL 32.167469 N Lat, 103.413933 W Lon		8. Well Name and No. STOVE PIPE FEDERAL COM 706H
		9. API Well No. 30-025-46503-00-X1
		10. Field and Pool or Exploratory Area MESA VERDE
		11. County or Parish, State LEA 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 respectfully requests approval for the following changes to the originally approved APD.

BHL Change
From: 50' FSL & 330' FWL Section 7. T25S. R35E
To: 50' FSL & 825' FWL Section 7. T25S. R35E

C102 attached.
AC Report attached.
Directional plan attached.

All previous conditions of approval still apply. DR

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

Electronic Submission #496029 verified by the BLM Well Information System

For COG OPERATING LLC, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 12/17/2019 (20PP0671SE)

Name (Printed/Typed) MAYTE X REYES

Title SENIOR REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/16/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By DYLAN ROSSMANGO

Title PETROLEUM ENGINEER

Date 12/18/2019

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 Hobbs

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)

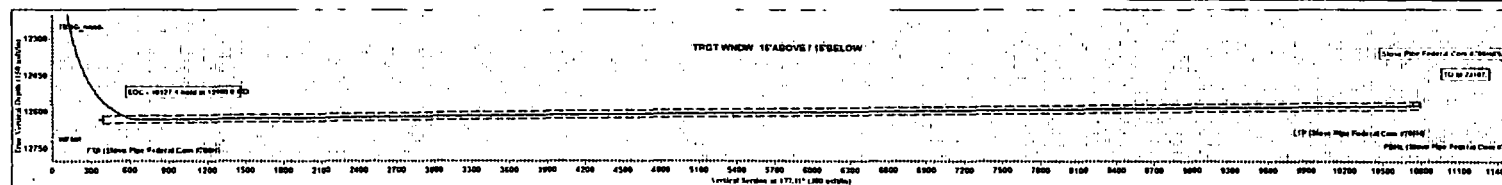
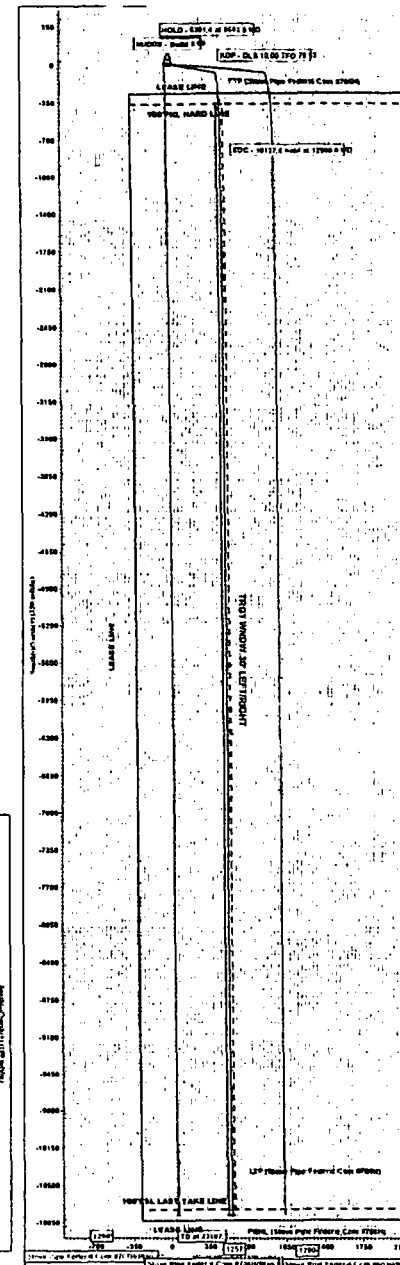
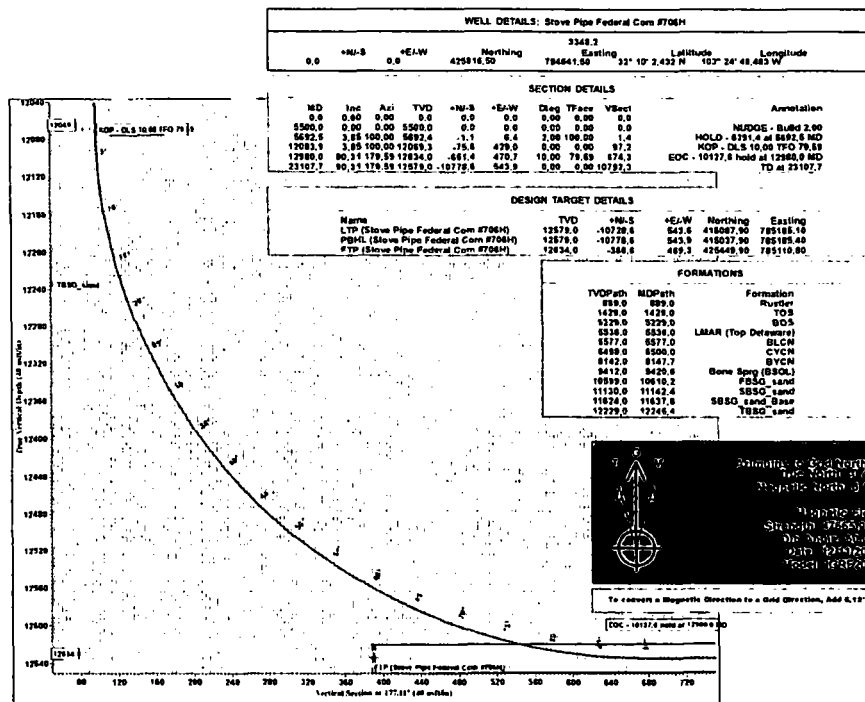
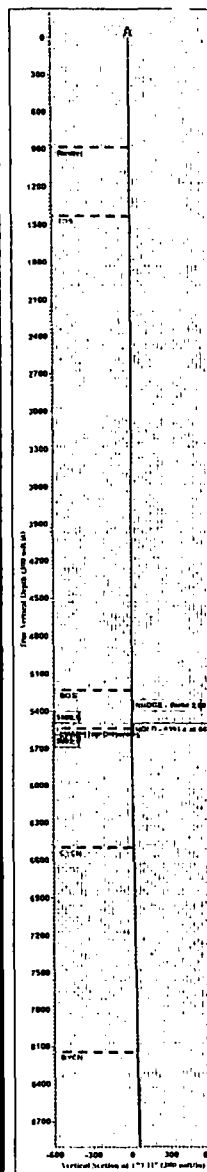
**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

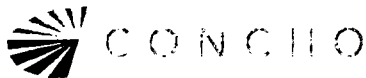
KG



Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Site: (Stove Pipe Federal) Sec-31 T-24-S R-35-E
Well: Stove Pipe Federal Com #706H
Wellbore: OWB
Design: Plan #3
Lat: 32° 10' 2.432 N
Long: 103° 24' 48.483 W
Pad GL: 3348.2
KB: KB @ 3378.2ust (Precision 106)

INTREPID





Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Site: (Stove Pipe Federal) Sec 31, T-24-S, R-35-E
Well: Stove Pipe Federal Com #706H
Wellbore: OWB
Design: Plan #3
Lat: 32° 10' 2.432 N
Long: 103° 24' 48.453 W
Pad GL: 3348.2
KB: KB @ 3379.2usft (Precision 108)

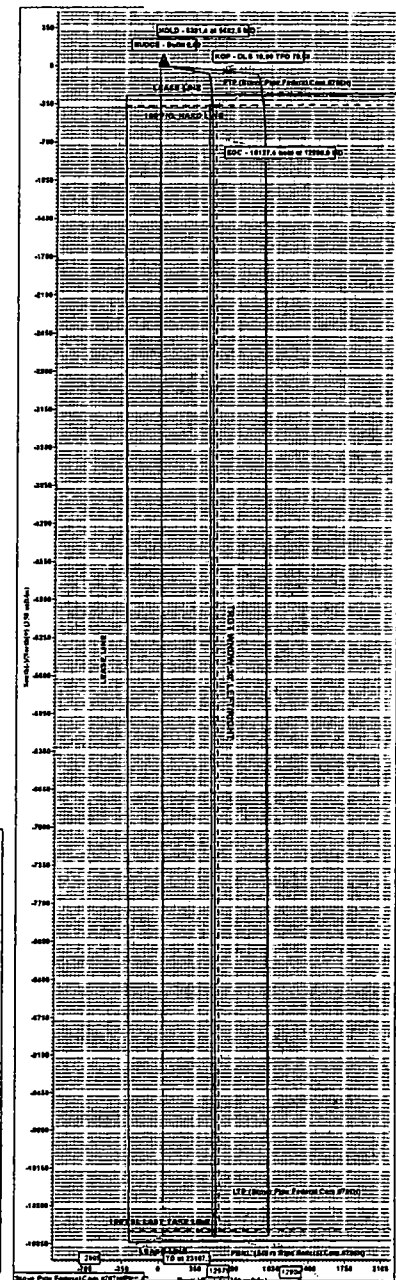
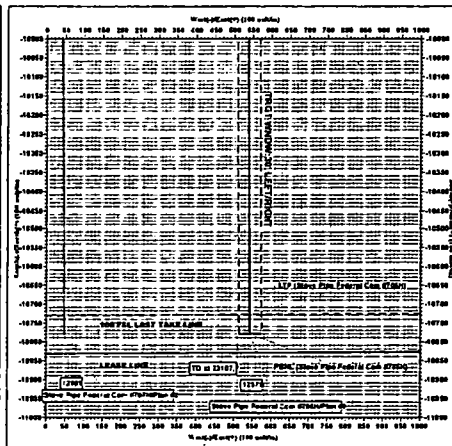
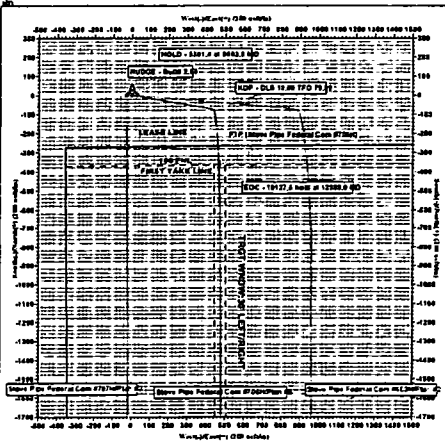
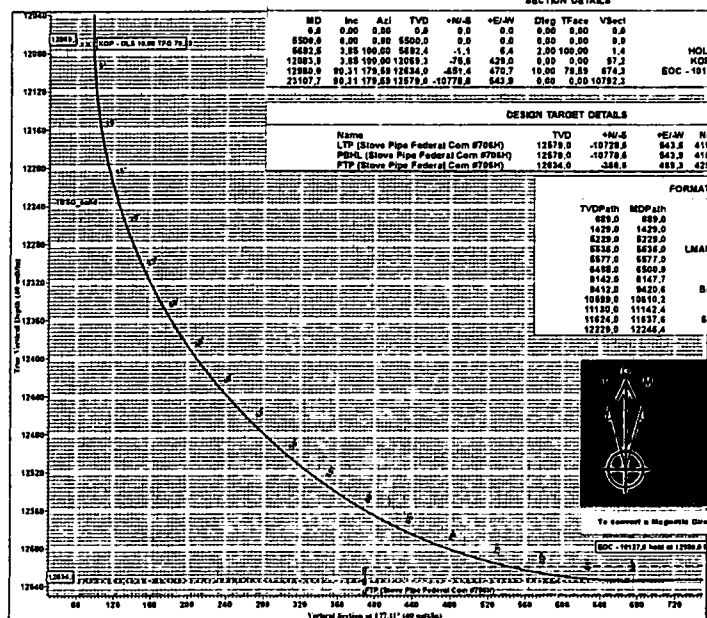
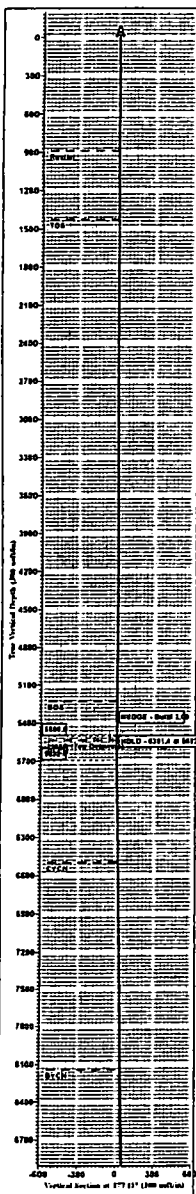
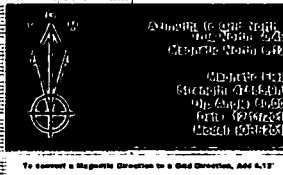


WELL DETAILS: Stove Pipe Federal Com #706H									
				3348.2					
0.0	+W-S	0.0	+E-W	Northing	Easting	Latitude	Longitude		
				425415.50	784541.50	32° 18' 2.432 N	103° 24' 48.653 W		

SECTION DETAILS									
MD	Inc	Alt	TVD	+	-	North	East	Lat	Long
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
5204.6	0.00	0.00	5204.6	0.0	0.0	0.00	0.00	0.0	0.0
5482.5	3.85	100.00	5482.4	-1.1	6.4	2.00	100.00	1.4	
12883.8	3.85	100.00	12883.2	-76.6	428.0	0.00	0.00	0.0	
12950.8	80.11	179.59	12950.0	-451.4	470.7	10.00	78.89	874.3	
2107.7	80.11	179.59	12978.6	-10778.6	543.9	0.00	0.00	10782.3	

DESIGN TARGET DETAILS					
Name	TVD	+	-	North	East
LTP (Stove Pipe Federal Com #706H)	12878.0	-10778.6	543.9	415087.80	785182.16
PHSL (Stove Pipe Federal Com #706H)	12878.0	-10778.6	543.9	415087.80	785182.16
PTP (Stove Pipe Federal Com #706H)	12878.0	-10778.6	543.9	415087.80	785182.16

FORMATIONS		
TVDPath	MDPath	Formation
0.0	0.00	Resist
1429.0	1429.0	TOS
5229.0	5229.0	BOB
5236.0	5236.0	LMAR (Top Delivered)
5277.0	5277.0	BLCN
5488.0	5488.0	CVCN
8142.0	8142.0	BYCN
8412.0	8412.0	Bone Spg (B30L)
10889.0	10889.0	F3LQ - sand
11130.0	11130.0	SSSO - sand
11824.0	11824.0	SSSO - sand
12278.0	12278.0	To SD - sand





Concho Resources, Inc.

**Lea County, NM (NAD 27 NME)
(Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Stove Pipe Federal Com #706H**

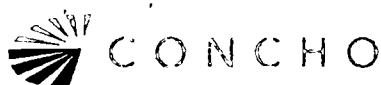
OWB

Plan: Plan #3

Standard Planning Report

12 December, 2019





Intrepid Planning Report



Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Well: Stove Pipe Federal Com #706H
Wellbore: OWB
Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site (Stove Pipe Federal) Sec-31_T-24-S_R-35-E

Site Position:	From: Map	Northing:	425,816.60 usft	Latitude:	32° 10' 2.430 N
		Easting:	784,671.60 usft	Longitude:	103° 24' 48.113 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well Stove Pipe Federal Com #706H

Well Position	+N/-S	-0.1 usft	Northing:	425,816.50 usft	Latitude:	32° 10' 2.432 N
	+E/-W	-30.1 usft	Easting:	784,641.50 usft	Longitude:	103° 24' 48.463 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,348.2 usft	

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/11/19	6.60	60.00	47,665.92505071

Design Plan #3

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

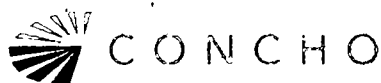
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.11

Plan Survey Tool Program Date 12/12/19

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,107.7 Plan #3 (OWB)	MWD+IFR1+FDIR	
			OWSG MWD + IFR1 + FDIR	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,692.5	3.85	100.00	5,692.4	-1.1	6.4	2.00	2.00	0.00	100.00	
12,083.9	3.85	100.00	12,069.3	-75.6	429.0	0.00	0.00	0.00	0.00	
12,980.0	90.31	179.59	12,634.0	-651.4	470.7	10.00	9.65	8.88	79.59	
23,107.7	90.31	179.59	12,579.0	-10,778.6	543.9	0.00	0.00	0.00	0.00	PBHL (Stove Pipe f



Intrepid
Planning Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
889.0	0.00	0.00	889.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,429.0	0.00	0.00	1,429.0	0.0	0.0	0.0	0.00	0.00	0.00
TOS									
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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00



Intrepid Planning Report

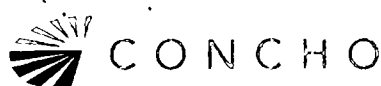


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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,229.0	0.00	0.00	5,229.0	0.0	0.0	0.0	0.00	0.00	0.00
BOS									
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
5,536.0	0.72	100.00	5,536.0	0.0	0.2	0.1	2.00	2.00	0.00
LMAR (Top Delaware)									
5,577.0	1.54	100.00	5,577.0	-0.2	1.0	0.2	2.00	2.00	0.00
BLCN									
5,600.0	2.00	100.00	5,600.0	-0.3	1.7	0.4	2.00	2.00	0.00
5,692.5	3.85	100.00	5,692.4	-1.1	6.4	1.4	2.00	2.00	0.00
HOLD - 6391.4 at 5692.5 MD									
5,700.0	3.85	100.00	5,699.8	-1.2	6.9	1.6	0.00	0.00	0.00
5,800.0	3.85	100.00	5,799.6	-2.4	13.5	3.1	0.00	0.00	0.00
5,900.0	3.85	100.00	5,899.4	-3.5	20.1	4.5	0.00	0.00	0.00
6,000.0	3.85	100.00	5,999.2	-4.7	26.7	6.0	0.00	0.00	0.00
6,100.0	3.85	100.00	6,098.9	-5.9	33.3	7.5	0.00	0.00	0.00
6,200.0	3.85	100.00	6,198.7	-7.0	39.9	9.0	0.00	0.00	0.00
6,300.0	3.85	100.00	6,298.5	-8.2	46.5	10.5	0.00	0.00	0.00
6,400.0	3.85	100.00	6,398.3	-9.4	53.1	12.0	0.00	0.00	0.00
6,500.0	3.85	100.00	6,498.0	-10.5	59.8	13.5	0.00	0.00	0.00
CYCN									
6,600.0	3.85	100.00	6,597.8	-11.7	66.4	15.0	0.00	0.00	0.00
6,700.0	3.85	100.00	6,697.6	-12.9	73.0	16.5	0.00	0.00	0.00
6,800.0	3.85	100.00	6,797.4	-14.0	79.6	18.0	0.00	0.00	0.00
6,900.0	3.85	100.00	6,897.1	-15.2	86.2	19.5	0.00	0.00	0.00
7,000.0	3.85	100.00	6,996.9	-16.4	92.8	21.0	0.00	0.00	0.00
7,100.0	3.85	100.00	7,096.7	-17.5	99.4	22.5	0.00	0.00	0.00
7,200.0	3.85	100.00	7,196.5	-18.7	106.0	24.0	0.00	0.00	0.00
7,300.0	3.85	100.00	7,296.2	-19.9	112.7	25.5	0.00	0.00	0.00
7,400.0	3.85	100.00	7,396.0	-21.0	119.3	27.0	0.00	0.00	0.00
7,500.0	3.85	100.00	7,495.8	-22.2	125.9	28.5	0.00	0.00	0.00
7,600.0	3.85	100.00	7,595.6	-23.4	132.5	30.0	0.00	0.00	0.00
7,700.0	3.85	100.00	7,695.3	-24.5	139.1	31.5	0.00	0.00	0.00
7,800.0	3.85	100.00	7,795.1	-25.7	145.7	33.0	0.00	0.00	0.00
7,900.0	3.85	100.00	7,894.9	-26.9	152.3	34.5	0.00	0.00	0.00
8,000.0	3.85	100.00	7,994.6	-28.0	158.9	36.0	0.00	0.00	0.00
8,100.0	3.85	100.00	8,094.4	-29.2	165.6	37.5	0.00	0.00	0.00
8,147.7	3.85	100.00	8,142.0	-29.7	168.7	38.2	0.00	0.00	0.00
BYCN									
8,200.0	3.85	100.00	8,194.2	-30.4	172.2	39.0	0.00	0.00	0.00
8,300.0	3.85	100.00	8,294.0	-31.5	178.8	40.5	0.00	0.00	0.00
8,400.0	3.85	100.00	8,393.7	-32.7	185.4	42.0	0.00	0.00	0.00
8,500.0	3.85	100.00	8,493.5	-33.9	192.0	43.5	0.00	0.00	0.00
8,600.0	3.85	100.00	8,593.3	-35.0	198.6	45.0	0.00	0.00	0.00
8,700.0	3.85	100.00	8,693.1	-36.2	205.2	46.5	0.00	0.00	0.00
8,800.0	3.85	100.00	8,792.8	-37.4	211.8	48.0	0.00	0.00	0.00
8,900.0	3.85	100.00	8,892.6	-38.5	218.5	49.5	0.00	0.00	0.00



Intrepid Planning Report

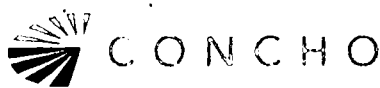


Database: EDM 5000.15 Single User Db
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
9,000.0	3.85	100.00	8,992.4	-39.7	225.1	51.0	0.00	0.00	0.00
9,100.0	3.85	100.00	9,092.2	-40.9	231.7	52.5	0.00	0.00	0.00
9,200.0	3.85	100.00	9,191.9	-42.0	238.3	54.0	0.00	0.00	0.00
9,300.0	3.85	100.00	9,291.7	-43.2	244.9	55.5	0.00	0.00	0.00
9,400.0	3.85	100.00	9,391.5	-44.4	251.5	57.0	0.00	0.00	0.00
9,420.6	3.85	100.00	9,412.0	-44.6	252.9	57.3	0.00	0.00	0.00
Bone Sprg (BSGL)									
9,500.0	3.85	100.00	9,491.3	-45.5	258.1	58.5	0.00	0.00	0.00
9,600.0	3.85	100.00	9,591.0	-46.7	264.7	60.0	0.00	0.00	0.00
9,700.0	3.85	100.00	9,690.8	-47.8	271.4	61.5	0.00	0.00	0.00
9,800.0	3.85	100.00	9,790.6	-49.0	278.0	63.0	0.00	0.00	0.00
9,900.0	3.85	100.00	9,890.4	-50.2	284.6	64.5	0.00	0.00	0.00
10,000.0	3.85	100.00	9,990.1	-51.3	291.2	66.0	0.00	0.00	0.00
10,100.0	3.85	100.00	10,089.9	-52.5	297.8	67.5	0.00	0.00	0.00
10,200.0	3.85	100.00	10,189.7	-53.7	304.4	69.0	0.00	0.00	0.00
10,300.0	3.85	100.00	10,289.5	-54.8	311.0	70.4	0.00	0.00	0.00
10,400.0	3.85	100.00	10,389.2	-56.0	317.6	71.9	0.00	0.00	0.00
10,500.0	3.85	100.00	10,489.0	-57.2	324.3	73.4	0.00	0.00	0.00
10,600.0	3.85	100.00	10,588.8	-58.3	330.9	74.9	0.00	0.00	0.00
10,610.2	3.85	100.00	10,599.0	-58.5	331.6	75.1	0.00	0.00	0.00
FBSG_sand									
10,700.0	3.85	100.00	10,688.6	-59.5	337.5	76.4	0.00	0.00	0.00
10,800.0	3.85	100.00	10,788.3	-60.7	344.1	77.9	0.00	0.00	0.00
10,900.0	3.85	100.00	10,888.1	-61.8	350.7	79.4	0.00	0.00	0.00
11,000.0	3.85	100.00	10,987.9	-63.0	357.3	80.9	0.00	0.00	0.00
11,100.0	3.85	100.00	11,087.7	-64.2	363.9	82.4	0.00	0.00	0.00
11,142.4	3.85	100.00	11,130.0	-64.7	366.7	83.1	0.00	0.00	0.00
SBSG_sand									
11,200.0	3.85	100.00	11,187.4	-65.3	370.5	83.9	0.00	0.00	0.00
11,300.0	3.85	100.00	11,287.2	-66.5	377.2	85.4	0.00	0.00	0.00
11,400.0	3.85	100.00	11,387.0	-67.7	383.8	86.9	0.00	0.00	0.00
11,500.0	3.85	100.00	11,486.7	-68.8	390.4	88.4	0.00	0.00	0.00
11,600.0	3.85	100.00	11,586.5	-70.0	397.0	89.9	0.00	0.00	0.00
11,637.6	3.85	100.00	11,624.0	-70.4	399.5	90.5	0.00	0.00	0.00
SBSG_sand_Base									
11,700.0	3.85	100.00	11,686.3	-71.2	403.6	91.4	0.00	0.00	0.00
11,800.0	3.85	100.00	11,786.1	-72.3	410.2	92.9	0.00	0.00	0.00
11,900.0	3.85	100.00	11,885.8	-73.5	416.8	94.4	0.00	0.00	0.00
12,000.0	3.85	100.00	11,985.6	-74.7	423.4	95.9	0.00	0.00	0.00
12,083.9	3.85	100.00	12,069.3	-75.6	429.0	97.2	0.00	0.00	0.00
KOP - DLS 10.00 TFO 79.59									
12,100.0	4.43	120.98	12,085.4	-76.1	430.1	97.6	10.00	3.62	130.07
12,150.0	8.23	152.33	12,135.1	-80.2	433.4	102.0	10.00	7.59	62.69
12,200.0	12.87	162.73	12,184.2	-88.7	436.7	110.6	10.00	9.29	20.81
12,246.4	17.35	167.34	12,229.0	-100.4	439.8	122.4	10.00	9.67	9.94
TBSG_sand									
12,250.0	17.71	167.60	12,232.5	-101.5	440.0	123.5	10.00	9.76	7.28
12,300.0	22.61	170.42	12,279.4	-118.4	443.2	140.6	10.00	9.81	5.64
12,350.0	27.55	172.28	12,324.6	-139.3	446.4	161.7	10.00	9.88	3.71
12,400.0	32.51	173.60	12,367.9	-164.2	449.4	186.6	10.00	9.91	2.65
12,450.0	37.47	174.61	12,408.9	-192.7	452.4	215.2	10.00	9.93	2.02
12,500.0	42.45	175.42	12,447.2	-224.7	455.1	247.3	10.00	9.95	1.61
12,550.0	47.43	176.08	12,482.6	-259.9	457.7	282.6	10.00	9.96	1.33



Intrepid
Planning Report

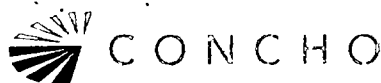


Database: EDM 5000.15 Single User Db
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,600.0	52.41	176.64	12,514.8	-298.0	460.2	320.8	10.00	9.96	1.13
12,650.0	57.39	177.14	12,543.5	-338.9	462.4	361.7	10.00	9.97	0.99
12,700.0	62.38	177.58	12,568.6	-382.1	464.4	405.0	10.00	9.97	0.88
12,750.0	67.36	177.98	12,589.8	-427.3	466.1	450.2	10.00	9.97	0.81
12,800.0	72.35	178.36	12,607.0	-474.2	467.6	497.1	10.00	9.98	0.75
12,850.0	77.34	178.71	12,620.1	-522.4	468.8	545.4	10.00	9.98	0.71
12,900.0	82.33	179.05	12,628.9	-571.6	469.8	594.5	10.00	9.98	0.68
12,950.0	87.32	179.39	12,633.4	-621.4	470.5	644.3	10.00	9.98	0.67
12,980.0	90.31	179.59	12,634.0	-651.4	470.7	674.3	10.00	9.98	0.66
EOC - 10127.6 hold at 12980.0 MD									
13,000.0	90.31	179.59	12,633.9	-671.4	470.9	694.2	0.00	0.00	0.00
13,100.0	90.31	179.59	12,633.4	-771.4	471.6	794.1	0.00	0.00	0.00
13,200.0	90.31	179.59	12,632.9	-871.3	472.3	894.0	0.00	0.00	0.00
13,300.0	90.31	179.59	12,632.3	-971.3	473.0	993.9	0.00	0.00	0.00
13,400.0	90.31	179.59	12,631.8	-1,071.3	473.8	1,093.9	0.00	0.00	0.00
13,500.0	90.31	179.59	12,631.2	-1,171.3	474.5	1,193.8	0.00	0.00	0.00
13,600.0	90.31	179.59	12,630.7	-1,271.3	475.2	1,293.7	0.00	0.00	0.00
13,700.0	90.31	179.59	12,630.1	-1,371.3	475.9	1,393.6	0.00	0.00	0.00
13,800.0	90.31	179.59	12,629.6	-1,471.3	476.7	1,493.5	0.00	0.00	0.00
13,900.0	90.31	179.59	12,629.0	-1,571.3	477.4	1,593.4	0.00	0.00	0.00
14,000.0	90.31	179.59	12,628.5	-1,671.3	478.1	1,693.3	0.00	0.00	0.00
14,100.0	90.31	179.59	12,628.0	-1,771.3	478.8	1,793.2	0.00	0.00	0.00
14,200.0	90.31	179.59	12,627.4	-1,871.3	479.6	1,893.1	0.00	0.00	0.00
14,300.0	90.31	179.59	12,626.9	-1,971.3	480.3	1,993.0	0.00	0.00	0.00
14,400.0	90.31	179.59	12,626.3	-2,071.3	481.0	2,092.9	0.00	0.00	0.00
14,500.0	90.31	179.59	12,625.8	-2,171.3	481.7	2,192.8	0.00	0.00	0.00
14,600.0	90.31	179.59	12,625.2	-2,271.3	482.4	2,292.7	0.00	0.00	0.00
14,700.0	90.31	179.59	12,624.7	-2,371.3	483.2	2,392.6	0.00	0.00	0.00
14,800.0	90.31	179.59	12,624.2	-2,471.3	483.9	2,492.5	0.00	0.00	0.00
14,900.0	90.31	179.59	12,623.6	-2,571.3	484.6	2,592.4	0.00	0.00	0.00
15,000.0	90.31	179.59	12,623.1	-2,671.3	485.3	2,692.3	0.00	0.00	0.00
15,100.0	90.31	179.59	12,622.5	-2,771.3	486.1	2,792.2	0.00	0.00	0.00
15,200.0	90.31	179.59	12,622.0	-2,871.3	486.8	2,892.1	0.00	0.00	0.00
15,300.0	90.31	179.59	12,621.4	-2,971.3	487.5	2,992.1	0.00	0.00	0.00
15,400.0	90.31	179.59	12,620.9	-3,071.3	488.2	3,092.0	0.00	0.00	0.00
15,500.0	90.31	179.59	12,620.4	-3,171.3	488.9	3,191.9	0.00	0.00	0.00
15,600.0	90.31	179.59	12,619.8	-3,271.2	489.7	3,291.8	0.00	0.00	0.00
15,700.0	90.31	179.59	12,619.3	-3,371.2	490.4	3,391.7	0.00	0.00	0.00
15,800.0	90.31	179.59	12,618.7	-3,471.2	491.1	3,491.6	0.00	0.00	0.00
15,900.0	90.31	179.59	12,618.2	-3,571.2	491.8	3,591.5	0.00	0.00	0.00
16,000.0	90.31	179.59	12,617.6	-3,671.2	492.6	3,691.4	0.00	0.00	0.00
16,100.0	90.31	179.59	12,617.1	-3,771.2	493.3	3,791.3	0.00	0.00	0.00
16,200.0	90.31	179.59	12,616.5	-3,871.2	494.0	3,891.2	0.00	0.00	0.00
16,300.0	90.31	179.59	12,616.0	-3,971.2	494.7	3,991.1	0.00	0.00	0.00
16,400.0	90.31	179.59	12,615.5	-4,071.2	495.4	4,091.0	0.00	0.00	0.00
16,500.0	90.31	179.59	12,614.9	-4,171.2	496.2	4,190.9	0.00	0.00	0.00
16,600.0	90.31	179.59	12,614.4	-4,271.2	496.9	4,290.8	0.00	0.00	0.00
16,700.0	90.31	179.59	12,613.8	-4,371.2	497.6	4,390.7	0.00	0.00	0.00
16,800.0	90.31	179.59	12,613.3	-4,471.2	498.3	4,490.6	0.00	0.00	0.00
16,900.0	90.31	179.59	12,612.7	-4,571.2	499.1	4,590.5	0.00	0.00	0.00
17,000.0	90.31	179.59	12,612.2	-4,671.2	499.8	4,690.4	0.00	0.00	0.00
17,100.0	90.31	179.59	12,611.7	-4,771.2	500.5	4,790.3	0.00	0.00	0.00
17,200.0	90.31	179.59	12,611.1	-4,871.2	501.2	4,890.3	0.00	0.00	0.00



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17,300.0	90.31	179.59	12,610.6	-4,971.2	501.9	4,990.2	0.00	0.00	0.00
17,400.0	90.31	179.59	12,610.0	-5,071.2	502.7	5,090.1	0.00	0.00	0.00
17,500.0	90.31	179.59	12,609.5	-5,171.2	503.4	5,190.0	0.00	0.00	0.00
17,600.0	90.31	179.59	12,608.9	-5,271.2	504.1	5,289.9	0.00	0.00	0.00
17,700.0	90.31	179.59	12,608.4	-5,371.2	504.8	5,389.8	0.00	0.00	0.00
17,800.0	90.31	179.59	12,607.8	-5,471.2	505.6	5,489.7	0.00	0.00	0.00
17,900.0	90.31	179.59	12,607.3	-5,571.2	506.3	5,589.6	0.00	0.00	0.00
18,000.0	90.31	179.59	12,606.8	-5,671.2	507.0	5,689.5	0.00	0.00	0.00
18,100.0	90.31	179.59	12,606.2	-5,771.1	507.7	5,789.4	0.00	0.00	0.00
18,200.0	90.31	179.59	12,605.7	-5,871.1	508.4	5,889.3	0.00	0.00	0.00
18,300.0	90.31	179.59	12,605.1	-5,971.1	509.2	5,989.2	0.00	0.00	0.00
18,400.0	90.31	179.59	12,604.6	-6,071.1	509.9	6,089.1	0.00	0.00	0.00
18,500.0	90.31	179.59	12,604.0	-6,171.1	510.6	6,189.0	0.00	0.00	0.00
18,600.0	90.31	179.59	12,603.5	-6,271.1	511.3	6,288.9	0.00	0.00	0.00
18,700.0	90.31	179.59	12,603.0	-6,371.1	512.1	6,388.8	0.00	0.00	0.00
18,800.0	90.31	179.59	12,602.4	-6,471.1	512.8	6,488.7	0.00	0.00	0.00
18,900.0	90.31	179.59	12,601.9	-6,571.1	513.5	6,588.6	0.00	0.00	0.00
19,000.0	90.31	179.59	12,601.3	-6,671.1	514.2	6,688.5	0.00	0.00	0.00
19,100.0	90.31	179.59	12,600.8	-6,771.1	514.9	6,788.5	0.00	0.00	0.00
19,200.0	90.31	179.59	12,600.2	-6,871.1	515.7	6,888.4	0.00	0.00	0.00
19,300.0	90.31	179.59	12,599.7	-6,971.1	516.4	6,988.3	0.00	0.00	0.00
19,400.0	90.31	179.59	12,599.2	-7,071.1	517.1	7,088.2	0.00	0.00	0.00
19,500.0	90.31	179.59	12,598.6	-7,171.1	517.8	7,188.1	0.00	0.00	0.00
19,600.0	90.31	179.59	12,598.1	-7,271.1	518.6	7,288.0	0.00	0.00	0.00
19,700.0	90.31	179.59	12,597.5	-7,371.1	519.3	7,387.9	0.00	0.00	0.00
19,800.0	90.31	179.59	12,597.0	-7,471.1	520.0	7,487.8	0.00	0.00	0.00
19,900.0	90.31	179.59	12,596.4	-7,571.1	520.7	7,587.7	0.00	0.00	0.00
20,000.0	90.31	179.59	12,595.9	-7,671.1	521.5	7,687.6	0.00	0.00	0.00
20,100.0	90.31	179.59	12,595.3	-7,771.1	522.2	7,787.5	0.00	0.00	0.00
20,200.0	90.31	179.59	12,594.8	-7,871.1	522.9	7,887.4	0.00	0.00	0.00
20,300.0	90.31	179.59	12,594.3	-7,971.1	523.6	7,987.3	0.00	0.00	0.00
20,400.0	90.31	179.59	12,593.7	-8,071.1	524.3	8,087.2	0.00	0.00	0.00
20,500.0	90.31	179.59	12,593.2	-8,171.0	525.1	8,187.1	0.00	0.00	0.00
20,600.0	90.31	179.59	12,592.6	-8,271.0	525.8	8,287.0	0.00	0.00	0.00
20,700.0	90.31	179.59	12,592.1	-8,371.0	526.5	8,386.9	0.00	0.00	0.00
20,800.0	90.31	179.59	12,591.5	-8,471.0	527.2	8,486.8	0.00	0.00	0.00
20,900.0	90.31	179.59	12,591.0	-8,571.0	528.0	8,586.7	0.00	0.00	0.00
21,000.0	90.31	179.59	12,590.5	-8,671.0	528.7	8,686.6	0.00	0.00	0.00
21,100.0	90.31	179.59	12,589.9	-8,771.0	529.4	8,786.6	0.00	0.00	0.00
21,200.0	90.31	179.59	12,589.4	-8,871.0	530.1	8,886.5	0.00	0.00	0.00
21,300.0	90.31	179.59	12,588.8	-8,971.0	530.8	8,986.4	0.00	0.00	0.00
21,400.0	90.31	179.59	12,588.3	-9,071.0	531.6	9,086.3	0.00	0.00	0.00
21,500.0	90.31	179.59	12,587.7	-9,171.0	532.3	9,186.2	0.00	0.00	0.00
21,600.0	90.31	179.59	12,587.2	-9,271.0	533.0	9,286.1	0.00	0.00	0.00
21,700.0	90.31	179.59	12,586.7	-9,371.0	533.7	9,386.0	0.00	0.00	0.00
21,800.0	90.31	179.59	12,586.1	-9,471.0	534.5	9,485.9	0.00	0.00	0.00
21,900.0	90.31	179.59	12,585.6	-9,571.0	535.2	9,585.8	0.00	0.00	0.00
22,000.0	90.31	179.59	12,585.0	-9,671.0	535.9	9,685.7	0.00	0.00	0.00
22,100.0	90.31	179.59	12,584.5	-9,771.0	536.6	9,785.6	0.00	0.00	0.00
22,200.0	90.31	179.59	12,583.9	-9,871.0	537.3	9,885.5	0.00	0.00	0.00
22,300.0	90.31	179.59	12,583.4	-9,971.0	538.1	9,985.4	0.00	0.00	0.00
22,400.0	90.31	179.59	12,582.8	-10,071.0	538.8	10,085.3	0.00	0.00	0.00
22,500.0	90.31	179.59	12,582.3	-10,171.0	539.5	10,185.2	0.00	0.00	0.00
22,600.0	90.31	179.59	12,581.8	-10,271.0	540.2	10,285.1	0.00	0.00	0.00

Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Well: Stove Pipe Federal Com #706H
Wellbore: OWB
Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
22,700.0	90.31	179.59	12,581.2	-10,371.0	541.0	10,385.0	0.00	0.00	0.00
22,800.0	90.31	179.59	12,580.7	-10,471.0	541.7	10,484.9	0.00	0.00	0.00
22,900.0	90.31	179.59	12,580.1	-10,571.0	542.4	10,584.9	0.00	0.00	0.00
23,000.0	90.31	179.59	12,579.6	-10,670.9	543.1	10,684.8	0.00	0.00	0.00
23,107.7	90.31	179.59	12,579.0	-10,778.6	543.9	10,792.3	0.00	0.00	0.00

TD at 23107.7

Design Targets
Target Name

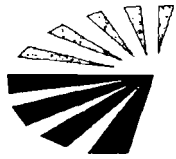
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL (Stove Pipe Federal) - plan hits target center - Rectangle (sides W60.0 H10,412.7 D30.0)	-0.31	179.59	12,579.0	-10,778.6	543.9	415,037.90	785,185.40	32° 8' 15.729 N	103° 24' 43.209 W
LTP (Stove Pipe Federal) - plan misses target center by 0.3usft at 23057.7usft MD (12579.3 TVD, -10728.6 N, 543.5 E) - Point	0.00	0.00	12,579.0	-10,728.6	543.6	415,087.90	785,185.10	32° 8' 16.224 N	103° 24' 43.207 W
FTP (Stove Pipe Federal) - plan misses target center by 65.5usft at 12714.0usft MD (12574.9 TVD, -394.5 N, 464.9 E) - Point	0.00	0.00	12,634.0	-366.6	469.3	425,449.90	785,110.80	32° 9' 58.765 N	103° 24' 43.040 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
889.0	889.0	Rustler			
1,429.0	1,429.0	TOS			
5,229.0	5,229.0	BOS			
5,536.0	5,536.0	LMAR (Top Delaware)			
5,577.0	5,577.0	BLCN			
6,500.0	6,498.0	CYCN			
8,147.7	8,142.0	BYCN			
9,420.6	9,412.0	Bone Sprg (BSGL)			
10,610.2	10,599.0	FBSG_sand			
11,142.4	11,130.0	SBSG_sand			
11,637.6	11,624.0	SBSG_sand_Base			
12,246.4	12,229.0	TBSG_sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
5,500.0	5,500.0	0.0	0.0	NUDGE - Build 2.00
5,692.5	5,692.4	-1.1	6.4	HOLD - 6391.4 at 5692.5 MD
12,083.9	12,069.3	-75.6	429.0	KOP - DLS 10.00 TFO 79.59
12,980.0	12,634.0	-651.4	470.7	EOC - 10127.6 hold at 12980.0 MD
23,107.7	12,579.0	-10,778.6	543.9	TD at 23107.7



C O N C H O

Concho Resources, Inc.

Lea County, NM (NAD 27 NME)

(Stove Pipe Federal) Sec-31_T-24-S_R-35-E

Stove Pipe Federal Com #706H

OWB

Plan #3

Anticollision Report

12 December, 2019

INTREPID



Intrepid

Anticollision Report



Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Reference	Plan #3
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.0usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 500.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

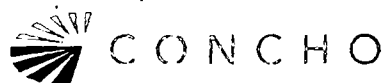
Survey Tool Program Date 12/12/19

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	23,107.7	Plan #3 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

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						
(Stove Pipe Federal) Sec-31_T-24-S_R-35-E						
Stove Pipe Federal Com #603H - OWB - Plan #2	2,500.0	2,499.2	30.1	12.6	1.725 CC, ES, SF	
Stove Pipe Federal Com #707H - OWB - Plan #2	5,500.0	5,500.3	30.0	6.7	1.289 Level 3, CC, ES, SF	

Offset Design:(Stove Pipe Federal) Sec-31_T-24-S_R-35-E - Stove Pipe Federal Com #603H - OWB - Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	0.0 usft
Reference	Offset			Semi Major Axis	Offset Wellbore Centre				Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	89.81	0.1	30.1	30.1					
100.0	100.0	99.2	99.2	0.1	0.1	89.81	0.1	30.1	30.1	29.9	0.25	122.181		
200.0	200.0	199.2	199.2	0.5	0.5	89.81	0.1	30.1	30.1	29.1	0.96	31.308		
300.0	300.0	299.2	299.2	0.8	0.8	89.81	0.1	30.1	30.1	28.4	1.68	17.934		
400.0	400.0	399.2	399.2	1.2	1.2	89.81	0.1	30.1	30.1	27.7	2.40	12.566		
500.0	500.0	499.2	499.2	1.6	1.6	89.81	0.1	30.1	30.1	27.0	3.11	9.672		
600.0	600.0	599.2	599.2	1.9	1.9	89.81	0.1	30.1	30.1	26.3	3.83	7.861		
700.0	700.0	699.2	699.2	2.3	2.3	89.81	0.1	30.1	30.1	25.6	4.55	6.621		
800.0	800.0	799.2	799.2	2.6	2.6	89.81	0.1	30.1	30.1	24.8	5.26	5.719		
900.0	900.0	899.2	899.2	3.0	3.0	89.81	0.1	30.1	30.1	24.1	5.98	5.033		
1,000.0	1,000.0	999.2	999.2	3.3	3.3	89.81	0.1	30.1	30.1	23.4	6.70	4.495		
1,100.0	1,100.0	1,099.2	1,099.2	3.7	3.7	89.81	0.1	30.1	30.1	22.7	7.41	4.060		
1,200.0	1,200.0	1,199.2	1,199.2	4.1	4.1	89.81	0.1	30.1	30.1	22.0	8.13	3.702		
1,300.0	1,300.0	1,299.2	1,299.2	4.4	4.4	89.81	0.1	30.1	30.1	21.3	8.85	3.402		
1,400.0	1,400.0	1,399.2	1,399.2	4.8	4.8	89.81	0.1	30.1	30.1	20.5	9.56	3.147		
1,500.0	1,500.0	1,499.2	1,499.2	5.1	5.1	89.81	0.1	30.1	30.1	19.8	10.28	2.928		
1,600.0	1,600.0	1,599.2	1,599.2	5.5	5.5	89.81	0.1	30.1	30.1	19.1	11.00	2.737		
1,700.0	1,700.0	1,699.2	1,699.2	5.9	5.9	89.81	0.1	30.1	30.1	18.4	11.72	2.569		
1,800.0	1,800.0	1,799.2	1,799.2	6.2	6.2	89.81	0.1	30.1	30.1	17.7	12.43	2.421		
1,900.0	1,900.0	1,899.2	1,899.2	6.6	6.6	89.81	0.1	30.1	30.1	17.0	13.15	2.289		
2,000.0	2,000.0	1,999.2	1,999.2	6.9	6.9	89.81	0.1	30.1	30.1	16.2	13.87	2.171		
2,100.0	2,100.0	2,099.2	2,099.2	7.3	7.3	89.81	0.1	30.1	30.1	15.5	14.58	2.064		
2,200.0	2,200.0	2,199.2	2,199.2	7.7	7.6	89.81	0.1	30.1	30.1	14.8	15.30	1.967		
2,300.0	2,300.0	2,299.2	2,299.2	8.0	8.0	89.81	0.1	30.1	30.1	14.1	16.02	1.879		
2,400.0	2,400.0	2,399.2	2,399.2	8.4	8.4	89.81	0.1	30.1	30.1	13.4	16.73	1.799		

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E - Stove Pipe Federal Com #603H - OWB - Plan #2

Offset Site Error: 0.0 usft

Offset Well Error: 0.0 usft

Survey Program: 0-MWD+IFR1+FDIR		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,500.0	2,500.0	2,499.2	2,499.2	8.7	8.7	89.81	0.1	30.1	30.1	12.6	17.45	1.725 CC, ES, SF	
2,600.0	2,600.0	2,598.1	2,598.1	9.1	9.1	90.08	0.0	31.8	31.8	13.6	18.15	1.752	
2,700.0	2,700.0	2,696.8	2,696.7	9.4	9.4	90.76	-0.5	36.8	36.9	18.1	18.81	1.963	
2,800.0	2,800.0	2,795.8	2,795.3	9.8	9.7	91.53	-1.2	44.9	45.1	25.6	19.48	2.316	
2,900.0	2,900.0	2,895.4	2,894.5	10.2	10.1	92.09	-2.0	53.6	53.8	33.6	20.18	2.667	
3,000.0	3,000.0	2,995.0	2,993.8	10.5	10.4	92.49	-2.7	62.2	62.5	41.6	20.88	2.995	
3,100.0	3,100.0	3,094.6	3,093.0	10.9	10.8	92.80	-3.5	70.9	71.2	49.7	21.58	3.301	
3,200.0	3,200.0	3,194.2	3,192.2	11.2	11.1	93.04	-4.2	79.5	79.9	57.7	22.28	3.588	
3,300.0	3,300.0	3,293.9	3,291.5	11.6	11.5	93.23	-5.0	88.2	88.7	65.7	22.99	3.857	
3,400.0	3,400.0	3,393.5	3,390.7	12.0	11.8	93.39	-5.7	96.8	97.4	73.7	23.69	4.110	
3,500.0	3,500.0	3,493.1	3,490.0	12.3	12.2	93.52	-6.5	105.5	106.1	81.7	24.39	4.349	
3,600.0	3,600.0	3,592.7	3,589.2	12.7	12.5	93.64	-7.3	114.1	114.8	89.7	25.10	4.574	
3,700.0	3,700.0	3,692.3	3,688.4	13.0	12.9	93.73	-8.0	122.8	123.5	97.7	25.81	4.786	
3,800.0	3,800.0	3,792.0	3,787.7	13.4	13.2	93.82	-8.8	131.4	132.2	105.7	26.51	4.987	
3,900.0	3,900.0	3,891.6	3,886.9	13.7	13.6	93.89	-9.5	140.1	140.9	113.7	27.22	5.177	
4,000.0	4,000.0	3,991.2	3,986.2	14.1	13.9	93.95	-10.3	148.7	149.6	121.7	27.93	5.358	
4,100.0	4,100.0	4,090.8	4,085.4	14.5	14.3	94.01	-11.0	157.4	158.4	129.7	28.64	5.530	
4,200.0	4,200.0	4,190.4	4,184.6	14.8	14.6	94.06	-11.8	166.0	167.1	137.7	29.35	5.693	
4,300.0	4,300.0	4,290.1	4,283.9	15.2	15.0	94.11	-12.5	174.7	175.8	145.7	30.06	5.848	
4,400.0	4,400.0	4,389.7	4,383.1	15.5	15.3	94.15	-13.3	183.3	184.5	153.7	30.77	5.996	
4,500.0	4,500.0	4,489.3	4,482.4	15.9	15.7	94.19	-14.1	192.0	193.2	161.7	31.48	6.138	
4,600.0	4,600.0	4,588.9	4,581.6	16.3	16.1	94.22	-14.8	200.6	201.9	169.7	32.19	6.273	
4,700.0	4,700.0	4,688.5	4,680.8	16.6	16.4	94.26	-15.6	209.3	210.7	177.7	32.90	6.402	
4,800.0	4,800.0	4,788.2	4,780.1	17.0	16.8	94.29	-16.3	217.9	219.4	185.8	33.62	6.526	
4,900.0	4,900.0	4,887.8	4,879.3	17.3	17.1	94.31	-17.1	226.6	228.1	193.8	34.33	6.644	
5,000.0	5,000.0	4,987.4	4,978.6	17.7	17.5	94.34	-17.8	235.2	236.8	201.8	35.04	6.758	
5,100.0	5,100.0	5,087.0	5,077.8	18.0	17.8	94.36	-18.6	243.9	245.5	209.8	35.75	6.867	
5,200.0	5,200.0	5,186.6	5,177.0	18.4	18.2	94.38	-19.4	252.5	254.2	217.8	36.47	6.971	
5,300.0	5,300.0	5,286.3	5,276.3	18.8	18.5	94.40	-20.1	261.2	262.9	225.8	37.18	7.072	
5,400.0	5,400.0	5,385.9	5,375.5	19.1	18.9	94.42	-20.9	269.8	271.7	233.8	37.89	7.169	
5,500.0	5,500.0	5,485.5	5,474.8	19.5	19.3	94.44	-21.6	278.5	280.4	241.8	38.61	7.262	
5,600.0	5,600.0	5,585.2	5,574.1	19.8	19.6	-5.56	-22.4	287.1	287.4	248.0	39.31	7.309	
5,700.0	5,699.8	5,685.2	5,673.7	20.2	20.0	-5.64	-23.1	295.8	290.9	250.9	40.01	7.271	
5,800.0	5,799.6	5,785.2	5,773.3	20.5	20.3	-5.75	-23.9	304.5	292.9	252.2	40.70	7.196	
5,900.0	5,899.4	5,885.1	5,872.9	20.8	20.7	-5.86	-24.7	313.2	295.0	253.6	41.40	7.125	
6,000.0	5,999.2	5,985.1	5,972.5	21.2	21.1	-5.96	-25.4	321.8	297.0	254.9	42.10	7.055	
6,100.0	6,098.9	6,085.1	6,072.1	21.5	21.4	-6.07	-26.2	330.5	299.0	256.2	42.80	6.987	
6,200.0	6,198.7	6,185.1	6,171.7	21.9	21.8	-6.17	-26.9	339.2	301.1	257.6	43.50	6.922	
6,300.0	6,298.5	6,285.0	6,271.3	22.2	22.1	-6.28	-27.7	347.9	303.1	258.9	44.20	6.858	
6,400.0	6,398.3	6,385.0	6,370.9	22.6	22.5	-6.38	-28.5	356.6	305.2	260.3	44.90	6.797	
6,500.0	6,498.0	6,485.0	6,470.5	22.9	22.9	-6.48	-29.2	365.2	307.2	261.6	45.60	6.737	
6,600.0	6,597.8	6,585.0	6,570.1	23.2	23.2	-6.58	-30.0	373.9	309.3	263.0	46.30	6.679	
6,700.0	6,697.6	6,685.0	6,669.7	23.6	23.6	-6.67	-30.7	382.6	311.3	264.3	47.01	6.623	
6,800.0	6,797.4	6,784.9	6,769.3	23.9	23.9	-6.77	-31.5	391.3	313.4	265.7	47.71	6.568	
6,900.0	6,897.1	6,884.9	6,868.9	24.3	24.3	-6.86	-32.3	400.0	315.4	267.0	48.42	6.515	
7,000.0	6,996.9	6,984.9	6,968.5	24.6	24.7	-6.96	-33.0	408.6	317.5	268.3	49.12	6.463	
7,100.0	7,096.7	7,084.9	7,068.0	25.0	25.0	-7.05	-33.8	417.3	319.5	269.7	49.83	6.412	
7,200.0	7,196.5	7,184.8	7,167.6	25.3	25.4	-7.14	-34.5	426.0	321.6	271.0	50.54	6.363	
7,300.0	7,296.2	7,284.8	7,267.2	25.7	25.7	-7.23	-35.3	434.7	323.6	272.4	51.24	6.315	
7,400.0	7,396.0	7,384.8	7,366.8	26.0	26.1	-7.32	-36.1	443.4	325.7	273.7	51.95	6.269	
7,500.0	7,495.8	7,484.8	7,466.4	26.4	26.5	-7.41	-36.8	452.1	327.7	275.1	52.66	6.224	
7,600.0	7,595.6	7,584.7	7,566.0	26.7	26.8	-7.49	-37.6	460.7	329.8	276.4	53.37	6.180	

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



Intrepid Anticollision Report



Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E - Stove Pipe Federal Com #603H - OWB - Plan #2

Survey Program: O-MWD+IFR1+FDIR							Rule Assigned:							Offset Site Error: 0.0 usft
Reference							Offset							Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,700.0	7,895.3	7,684.7	7,665.6	27.1	27.2	-7.58	-38.3	469.4	331.8	277.8	54.08	6.137		
7,800.0	7,795.1	7,784.7	7,765.2	27.4	27.6	-7.66	-39.1	478.1	333.9	279.1	54.79	6.095		
7,900.0	7,894.9	7,884.7	7,864.8	27.8	27.9	-7.75	-39.9	486.8	336.0	280.5	55.50	6.054		
8,000.0	7,994.6	7,984.7	7,964.4	28.1	28.3	-7.83	-40.6	495.5	338.0	281.8	56.21	6.014		
8,100.0	8,094.4	8,084.6	8,064.0	28.5	28.6	-7.91	-41.4	504.1	340.1	283.2	56.92	5.975		
8,200.0	8,194.2	8,184.6	8,163.6	28.8	29.0	-7.99	-42.1	512.8	342.1	284.5	57.63	5.937		
8,300.0	8,294.0	8,284.6	8,263.2	29.2	29.4	-8.07	-42.9	521.5	344.2	285.9	58.34	5.900		
8,400.0	8,393.7	8,384.6	8,362.8	29.5	29.7	-8.15	-43.7	530.2	346.3	287.2	59.05	5.864		
8,500.0	8,493.5	8,484.5	8,462.4	29.9	30.1	-8.23	-44.4	538.9	348.3	288.6	59.77	5.828		
8,600.0	8,593.3	8,584.5	8,562.0	30.2	30.5	-8.30	-45.2	547.5	350.4	289.9	60.48	5.794		
8,700.0	8,693.1	8,684.5	8,661.6	30.6	30.8	-8.38	-45.9	556.2	352.5	291.3	61.19	5.760		
8,800.0	8,792.8	8,784.5	8,761.2	30.9	31.2	-8.45	-46.7	564.9	354.5	292.6	61.91	5.727		
8,900.0	8,892.6	8,884.5	8,860.8	31.3	31.5	-8.53	-47.4	573.6	356.6	294.0	62.62	5.694		
9,000.0	8,992.4	8,984.4	8,960.4	31.6	31.9	-8.60	-48.2	582.3	358.6	295.3	63.33	5.663		
9,100.0	9,092.2	9,084.4	9,060.0	32.0	32.3	-8.67	-49.0	590.9	360.7	296.7	64.05	5.632		
9,200.0	9,191.9	9,184.4	9,159.6	32.3	32.6	-8.75	-49.7	599.6	362.8	298.0	64.76	5.602		
9,300.0	9,291.7	9,284.4	9,259.2	32.7	33.0	-8.82	-50.5	608.3	364.8	299.4	65.48	5.572		
9,400.0	9,391.5	9,384.3	9,358.8	33.0	33.4	-8.89	-51.2	617.0	366.9	300.7	66.19	5.543		
9,500.0	9,491.3	9,484.3	9,458.4	33.4	33.7	-8.96	-52.0	625.7	369.0	302.1	66.91	5.515		
9,600.0	9,591.0	9,584.3	9,558.0	33.8	34.1	-9.02	-52.8	634.3	371.0	303.4	67.62	5.487		
9,700.0	9,690.8	9,684.3	9,657.6	34.1	34.4	-9.09	-53.5	643.0	373.1	304.8	68.34	5.460		
9,800.0	9,790.6	9,784.3	9,757.2	34.5	34.8	-9.16	-54.3	651.7	375.2	306.1	69.05	5.433		
9,900.0	9,890.4	9,884.2	9,856.8	34.8	35.2	-9.23	-55.0	660.4	377.3	307.5	69.77	5.407		
10,000.0	9,990.1	9,984.2	9,956.4	35.2	35.5	-9.29	-55.8	669.1	379.3	308.8	70.49	5.382		
10,100.0	10,089.9	10,084.2	10,056.0	35.5	35.9	-9.36	-56.6	677.7	381.4	310.2	71.20	5.356		
10,200.0	10,189.7	10,184.2	10,155.6	35.9	36.3	-9.42	-57.3	686.4	383.5	311.5	71.92	5.332		
10,300.0	10,289.5	10,284.1	10,255.2	36.2	36.6	-9.48	-58.1	695.1	385.5	312.9	72.64	5.308		
10,400.0	10,389.2	10,384.1	10,354.8	36.6	37.0	-9.55	-58.8	703.8	387.6	314.3	73.35	5.284		
10,500.0	10,489.0	10,484.1	10,454.4	36.9	37.3	-9.61	-59.6	712.5	389.7	315.6	74.07	5.261		
10,600.0	10,588.8	10,584.1	10,554.0	37.3	37.7	-9.67	-60.4	721.1	391.8	317.0	74.79	5.238		
10,700.0	10,688.6	10,684.1	10,653.5	37.7	38.1	-9.73	-61.1	729.8	393.8	318.3	75.51	5.216		
10,800.0	10,788.3	10,784.0	10,753.1	38.0	38.4	-9.79	-61.9	738.5	395.9	319.7	76.22	5.194		
10,900.0	10,888.1	10,884.0	10,852.7	38.4	38.8	-9.85	-62.6	747.2	398.0	321.0	76.94	5.172		
11,000.0	10,987.9	10,984.0	10,952.3	38.7	39.2	-9.91	-63.4	755.9	400.1	322.4	77.66	5.151		
11,100.0	11,087.7	11,084.0	11,051.9	39.1	39.5	-9.97	-64.2	764.5	402.1	323.8	78.38	5.131		
11,200.0	11,187.4	11,183.9	11,151.5	39.4	39.9	-10.02	-64.9	773.2	404.2	325.1	79.10	5.110		
11,300.0	11,287.2	11,283.9	11,251.1	39.8	40.3	-10.08	-65.7	781.9	406.3	326.5	79.82	5.090		
11,400.0	11,387.0	11,383.9	11,350.7	40.2	40.6	-10.14	-66.4	790.6	408.4	327.8	80.53	5.071		
11,500.0	11,486.7	11,483.9	11,450.3	40.5	41.0	-10.19	-67.2	799.3	410.4	329.2	81.25	5.051		
11,600.0	11,586.5	11,583.9	11,549.9	40.9	41.3	-10.25	-68.0	808.0	412.5	330.5	81.97	5.032		
11,700.0	11,686.3	11,683.8	11,649.5	41.2	41.7	-10.30	-68.7	816.6	414.6	331.9	82.69	5.014		
11,800.0	11,786.1	11,783.8	11,749.1	41.6	42.1	-10.36	-69.5	825.3	416.7	333.3	83.41	4.995		
11,900.0	11,885.8	11,883.8	11,848.7	41.9	42.4	-10.41	-70.2	834.0	418.7	334.6	84.13	4.977		
12,000.0	11,985.6	11,983.8	11,948.3	42.3	42.8	-10.46	-71.0	842.7	420.8	336.0	84.85	4.960		
12,100.0	12,085.4	12,083.7	12,047.9	42.6	43.2	-10.44	-71.8	851.4	422.9	337.3	85.57	4.942		
12,200.0	12,184.2	12,182.9	12,146.7	43.0	43.5	-10.42	-72.5	860.0	425.2	338.9	86.28	4.927		
12,300.0	12,279.4	12,278.5	12,241.9	43.3	43.9	-10.47	-73.2	868.3	429.0	342.0	86.99	4.932		
12,400.0	12,367.9	12,367.5	12,330.6	43.6	44.2	-10.41	-73.9	876.0	437.5	349.9	87.66	4.991		
12,500.0	12,447.2	12,453.9	12,416.7	43.9	44.5	-10.37	-75.3	883.5	454.7	366.3	88.33	5.147		
12,600.0	12,514.8	12,563.1	12,523.9	44.1	44.9	-10.47	-91.7	893.5	480.1	391.2	88.91	5.400		

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

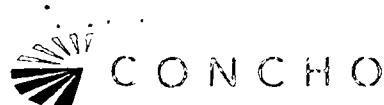
Offset Design:(Stove Pipe Federal) Sec-31_T-24-S_R-35-E - Stove Pipe Federal Com #707H - OWB - Plan #2

Offset Site Error: 0.0 usft

Offset Well Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12409-MWD+IFR1+FDIR							Rule Assigned:				Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.3	0.3	0.0	0.0	-90.38	-0.2	-30.0	30.0				
100.0	100.0	100.3	100.3	0.1	0.0	-90.38	-0.2	-30.0	30.0	29.9	0.15	202.749	
200.0	200.0	200.3	200.3	0.5	0.2	-90.38	-0.2	-30.0	30.0	29.4	0.58	52.061	
300.0	300.0	300.3	300.3	0.8	0.3	-90.38	-0.2	-30.0	30.0	29.0	1.00	29.865	
400.0	400.0	400.3	400.3	1.2	0.4	-90.38	-0.2	-30.0	30.0	28.6	1.43	20.938	
500.0	500.0	500.3	500.3	1.6	0.6	-90.38	-0.2	-30.0	30.0	28.1	1.86	16.120	
600.0	600.0	600.3	600.3	1.9	0.7	-90.38	-0.2	-30.0	30.0	27.7	2.29	13.104	
700.0	700.0	700.3	700.3	2.3	0.8	-90.38	-0.2	-30.0	30.0	27.3	2.72	11.039	
800.0	800.0	800.3	800.3	2.6	1.0	-90.38	-0.2	-30.0	30.0	26.9	3.15	9.536	
900.0	900.0	900.3	900.3	3.0	1.1	-90.38	-0.2	-30.0	30.0	26.4	3.57	8.393	
1,000.0	1,000.0	1,000.3	1,000.3	3.3	1.2	-90.38	-0.2	-30.0	30.0	26.0	4.00	7.495	
1,100.0	1,100.0	1,100.3	1,100.3	3.7	1.4	-90.38	-0.2	-30.0	30.0	25.6	4.43	6.771	
1,200.0	1,200.0	1,200.3	1,200.3	4.1	1.5	-90.38	-0.2	-30.0	30.0	25.1	4.86	6.174	
1,300.0	1,300.0	1,300.3	1,300.3	4.4	1.6	-90.38	-0.2	-30.0	30.0	24.7	5.29	5.674	
1,400.0	1,400.0	1,400.3	1,400.3	4.8	1.8	-90.38	-0.2	-30.0	30.0	24.3	5.72	5.249	
1,500.0	1,500.0	1,500.3	1,500.3	5.1	1.9	-90.38	-0.2	-30.0	30.0	23.9	6.14	4.883	
1,600.0	1,600.0	1,600.3	1,600.3	5.5	2.0	-90.38	-0.2	-30.0	30.0	23.4	6.57	4.565	
1,700.0	1,700.0	1,700.3	1,700.3	5.9	2.2	-90.38	-0.2	-30.0	30.0	23.0	7.00	4.285	
1,800.0	1,800.0	1,800.3	1,800.3	6.2	2.3	-90.38	-0.2	-30.0	30.0	22.6	7.43	4.038	
1,900.0	1,900.0	1,900.3	1,900.3	6.6	2.4	-90.38	-0.2	-30.0	30.0	22.1	7.86	3.818	
2,000.0	2,000.0	2,000.3	2,000.3	6.9	2.6	-90.38	-0.2	-30.0	30.0	21.7	8.29	3.621	
2,100.0	2,100.0	2,100.3	2,100.3	7.3	2.7	-90.38	-0.2	-30.0	30.0	21.3	8.71	3.443	
2,200.0	2,200.0	2,200.3	2,200.3	7.7	2.8	-90.38	-0.2	-30.0	30.0	20.9	9.14	3.282	
2,300.0	2,300.0	2,300.3	2,300.3	8.0	2.9	-90.38	-0.2	-30.0	30.0	20.4	9.57	3.135	
2,400.0	2,400.0	2,400.3	2,400.3	8.4	3.1	-90.38	-0.2	-30.0	30.0	20.0	10.00	3.000	
2,500.0	2,500.0	2,500.3	2,500.3	8.7	3.2	-90.38	-0.2	-30.0	30.0	19.6	10.43	2.877	
2,600.0	2,600.0	2,600.3	2,600.3	9.1	3.3	-90.38	-0.2	-30.0	30.0	19.1	10.86	2.764	
2,700.0	2,700.0	2,700.3	2,700.3	9.4	3.5	-90.38	-0.2	-30.0	30.0	18.7	11.28	2.659	
2,800.0	2,800.0	2,800.3	2,800.3	9.8	3.6	-90.38	-0.2	-30.0	30.0	18.3	11.71	2.562	
2,900.0	2,900.0	2,900.3	2,900.3	10.2	3.7	-90.38	-0.2	-30.0	30.0	17.9	12.14	2.471	
3,000.0	3,000.0	3,000.3	3,000.3	10.5	3.9	-90.38	-0.2	-30.0	30.0	17.4	12.57	2.387	
3,100.0	3,100.0	3,100.3	3,100.3	10.9	4.0	-90.38	-0.2	-30.0	30.0	17.0	13.00	2.308	
3,200.0	3,200.0	3,200.3	3,200.3	11.2	4.1	-90.38	-0.2	-30.0	30.0	16.6	13.42	2.235	
3,300.0	3,300.0	3,300.3	3,300.3	11.6	4.3	-90.38	-0.2	-30.0	30.0	16.1	13.85	2.166	
3,400.0	3,400.0	3,400.3	3,400.3	12.0	4.4	-90.38	-0.2	-30.0	30.0	15.7	14.28	2.101	
3,500.0	3,500.0	3,500.3	3,500.3	12.3	4.5	-90.38	-0.2	-30.0	30.0	15.3	14.71	2.040	
3,600.0	3,600.0	3,600.3	3,600.3	12.7	4.7	-90.38	-0.2	-30.0	30.0	14.9	15.14	1.982	
3,700.0	3,700.0	3,700.3	3,700.3	13.0	4.8	-90.38	-0.2	-30.0	30.0	14.4	15.57	1.927	
3,800.0	3,800.0	3,800.3	3,800.3	13.4	4.9	-90.38	-0.2	-30.0	30.0	14.0	15.99	1.876	
3,900.0	3,900.0	3,900.3	3,900.3	13.7	5.1	-90.38	-0.2	-30.0	30.0	13.6	16.42	1.827	
4,000.0	4,000.0	4,000.3	4,000.3	14.1	5.2	-90.38	-0.2	-30.0	30.0	13.1	16.85	1.780	
4,100.0	4,100.0	4,100.3	4,100.3	14.5	5.3	-90.38	-0.2	-30.0	30.0	12.7	17.28	1.736	
4,200.0	4,200.0	4,200.3	4,200.3	14.8	5.5	-90.38	-0.2	-30.0	30.0	12.3	17.71	1.694	
4,300.0	4,300.0	4,300.3	4,300.3	15.2	5.6	-90.38	-0.2	-30.0	30.0	11.9	18.14	1.654	
4,400.0	4,400.0	4,400.3	4,400.3	15.5	5.7	-90.38	-0.2	-30.0	30.0	11.4	18.56	1.616	
4,500.0	4,500.0	4,500.3	4,500.3	15.9	5.8	-90.38	-0.2	-30.0	30.0	11.0	18.99	1.580	
4,600.0	4,600.0	4,600.3	4,600.3	16.3	6.0	-90.38	-0.2	-30.0	30.0	10.6	19.42	1.545	
4,700.0	4,700.0	4,700.3	4,700.3	16.6	6.1	-90.38	-0.2	-30.0	30.0	10.2	19.85	1.511	
4,800.0	4,800.0	4,800.3	4,800.3	17.0	6.2	-90.38	-0.2	-30.0	30.0	9.7	20.28	1.480 Level 3	
4,900.0	4,900.0	4,900.3	4,900.3	17.3	6.4	-90.38	-0.2	-30.0	30.0	9.3	20.71	1.449 Level 3	
5,000.0	5,000.0	5,000.3	5,000.3	17.7	6.5	-90.38	-0.2	-30.0	30.0	8.9	21.13	1.420 Level 3	
5,100.0	5,100.0	5,100.3	5,100.3	18.0	6.6	-90.38	-0.2	-30.0	30.0	8.4	21.56	1.391 Level 3	

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

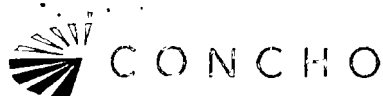
Offset Design: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E - Stove Pipe Federal Com #707H - OWB - Plan #2

Offset Site Error: 0.0 usft

Offset Well Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12409-MWD+IFR1+FDIR										Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toeface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,200.0	5,200.3	5,200.3	18.4	6.8	-90.38		-0.2	-30.0	30.0	8.0	21.99	1.364 Level 3	
5,300.0	5,300.0	5,300.3	5,300.3	18.8	6.9	-90.38		-0.2	-30.0	30.0	7.6	22.42	1.338 Level 3	
5,400.0	5,400.0	5,400.3	5,400.3	19.1	7.0	-90.38		-0.2	-30.0	30.0	7.2	22.85	1.313 Level 3	
5,500.0	5,500.0	5,500.3	5,500.3	19.5	7.2	-90.38		-0.2	-30.0	30.0	6.7	23.28	1.289 Level 3	
5,500.0	5,500.0	5,500.3	5,500.3	19.5	7.2	-90.38		-0.2	-30.0	30.0	6.7	23.28	1.289 Level 3, CC, ES, SF	
5,600.0	5,600.0	5,600.3	5,600.3	19.8	7.2	167.21		-1.8	-30.0	31.7	8.0	23.70	1.338 Level 3	
5,700.0	5,699.8	5,700.1	5,700.1	20.2	7.1	164.92		-4.5	-29.9	36.9	12.8	24.13	1.530	
5,800.0	5,799.6	5,799.9	5,799.8	20.5	7.1	163.79		-7.1	-29.9	43.6	19.1	24.56	1.776	
5,900.0	5,899.4	5,899.7	5,899.5	20.8	7.0	162.95		-9.7	-29.8	50.3	25.3	24.97	2.014	
6,000.0	5,999.2	5,999.4	5,999.3	21.2	7.0	162.31		-12.3	-29.8	57.0	31.6	25.39	2.245	
6,100.0	6,098.9	6,099.2	6,099.0	21.5	6.9	161.81		-14.9	-29.7	63.7	37.9	25.80	2.469	
6,200.0	6,198.7	6,199.0	6,198.8	21.9	6.9	161.40		-17.5	-29.7	70.4	44.2	26.22	2.685	
6,300.0	6,298.5	6,298.8	6,298.5	22.2	6.8	161.06		-20.1	-29.7	77.1	50.5	26.63	2.896	
6,400.0	6,398.3	6,398.5	6,398.2	22.6	6.8	160.78		-22.7	-29.6	83.8	56.8	27.04	3.100	
6,500.0	6,498.0	6,498.3	6,498.0	22.9	6.8	160.54		-25.3	-29.6	90.5	63.1	27.45	3.298	
6,600.0	6,597.8	6,598.1	6,597.7	23.2	6.7	160.33		-28.0	-29.5	97.3	69.4	27.86	3.490	
6,700.0	6,697.6	6,697.9	6,697.5	23.6	6.7	160.15		-30.6	-29.5	104.0	75.7	28.28	3.677	
6,800.0	6,797.4	6,797.6	6,797.2	23.9	6.7	159.99		-33.2	-29.4	110.7	82.0	28.69	3.858	
6,900.0	6,897.1	6,897.4	6,896.9	24.3	6.6	159.85		-35.8	-29.4	117.4	88.3	29.10	4.035	
7,000.0	6,996.9	6,997.2	6,996.7	24.6	6.6	159.73		-38.4	-29.3	124.1	94.6	29.51	4.206	
7,100.0	7,096.7	7,097.0	7,096.4	25.0	6.6	159.61		-41.0	-29.3	130.9	100.9	29.93	4.373	
7,200.0	7,196.5	7,196.7	7,196.2	25.3	6.6	159.51		-43.6	-29.2	137.6	107.2	30.34	4.535	
7,300.0	7,296.2	7,296.5	7,295.9	25.7	6.6	159.42		-46.2	-29.2	144.3	113.5	30.75	4.692	
7,400.0	7,396.0	7,396.3	7,395.6	26.0	6.5	159.34		-48.8	-29.2	151.0	119.8	31.17	4.846	
7,500.0	7,495.8	7,496.0	7,495.4	26.4	6.5	159.26		-51.5	-29.1	157.7	126.2	31.58	4.995	
7,600.0	7,595.6	7,595.8	7,595.1	26.7	6.5	159.19		-54.1	-29.1	164.5	132.5	31.99	5.140	
7,700.0	7,695.3	7,695.6	7,694.9	27.1	6.5	159.12		-56.7	-29.0	171.2	138.8	32.41	5.282	
7,800.0	7,795.1	7,795.4	7,794.6	27.4	6.5	159.06		-59.3	-29.0	177.9	145.1	32.82	5.420	
7,900.0	7,894.9	7,895.1	7,894.3	27.8	6.5	159.01		-61.9	-28.9	184.6	151.4	33.24	5.554	
8,000.0	7,994.6	7,994.9	7,994.1	28.1	6.5	158.96		-64.5	-28.9	191.3	157.7	33.66	5.685	
8,100.0	8,094.4	8,094.7	8,093.8	28.5	6.5	158.91		-67.1	-28.8	198.1	164.0	34.07	5.813	
8,200.0	8,194.2	8,194.5	8,193.6	28.8	6.5	158.86		-69.7	-28.8	204.8	170.3	34.49	5.938	
8,300.0	8,294.0	8,294.2	8,293.3	29.2	6.5	158.82		-72.4	-28.7	211.5	176.6	34.91	6.059	
8,400.0	8,393.7	8,394.0	8,393.0	29.5	6.5	158.78		-75.0	-28.7	218.2	182.9	35.32	6.178	
8,500.0	8,493.5	8,493.8	8,492.8	29.9	6.6	158.74		-77.6	-28.6	225.0	189.2	35.74	6.294	
8,600.0	8,593.3	8,593.6	8,592.5	30.2	6.6	158.71		-80.2	-28.6	231.7	195.5	36.16	6.407	
8,700.0	8,693.1	8,693.3	8,692.3	30.6	6.6	158.68		-82.8	-28.6	238.4	201.8	36.58	6.517	
8,800.0	8,792.8	8,793.1	8,792.0	30.9	6.6	158.64		-85.4	-28.5	245.1	208.1	37.00	6.625	
8,900.0	8,892.6	8,892.9	8,891.7	31.3	6.6	158.61		-88.0	-28.5	251.8	214.4	37.42	6.731	
9,000.0	8,992.4	8,992.7	8,991.5	31.6	6.7	158.59		-90.6	-28.4	258.6	220.7	37.84	6.834	
9,100.0	9,092.2	9,092.4	9,091.2	32.0	6.7	158.56		-93.2	-28.4	265.3	227.0	38.26	6.934	
9,200.0	9,191.9	9,192.2	9,191.0	32.3	6.7	158.53		-95.9	-28.3	272.0	233.3	38.68	7.033	
9,300.0	9,291.7	9,292.0	9,290.7	32.7	6.7	158.51		-98.5	-28.3	278.7	239.6	39.10	7.129	
9,400.0	9,391.5	9,391.7	9,390.4	33.0	6.8	158.49		-101.1	-28.2	285.5	245.9	39.52	7.223	
9,500.0	9,491.3	9,491.5	9,490.2	33.4	6.8	158.46		-103.7	-28.2	292.2	252.2	39.94	7.315	
9,600.0	9,591.0	9,591.3	9,589.9	33.8	6.9	158.44		-106.3	-28.1	298.9	258.5	40.36	7.405	
9,700.0	9,690.8	9,691.1	9,689.6	34.1	6.9	158.42		-108.9	-28.1	305.6	264.8	40.78	7.494	
9,800.0	9,790.6	9,790.8	9,789.4	34.5	7.0	158.40		-111.5	-28.1	312.4	271.1	41.21	7.580	
9,900.0	9,890.4	9,890.6	9,889.1	34.8	7.0	158.39		-114.1	-28.0	319.1	277.4	41.63	7.665	
10,000.0	9,990.1	9,990.4	9,988.9	35.2	7.0	158.37		-116.7	-28.0	325.8	283.7	42.05	7.748	
10,100.0	10,089.9	10,090.2	10,088.6	35.5	7.1	158.35		-119.4	-27.9	332.5	290.0	42.47	7.829	
10,200.0	10,189.7	10,189.9	10,188.3	35.9	7.2	158.34		-122.0	-27.9	339.2	296.3	42.90	7.908	

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



Intrepid
Anticollision Report



Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Offset Design:(Stove Pipe Federal) Sec-31_T-24-S_R-35-E - Stove Pipe Federal Com #707H - OWB - Plan #2

Offset Site Error: 0.0 usft

Offset Well Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12409-MWD+IFR1+FDIR

Reference		Offset		Semi Major Axis		Highside Tooface (")	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centros (usft)	Between Ellipses (usft)			
10,300.0	10,289.5	10,289.7	10,288.1	36.2	7.2	158.32	-124.6	-27.8	346.0	302.6	43.32	7.986	
10,400.0	10,389.2	10,389.5	10,387.8	36.6	7.3	158.31	-127.2	-27.8	352.7	308.9	43.74	8.062	
10,500.0	10,489.0	10,489.3	10,487.6	36.9	7.3	158.29	-129.8	-27.7	359.4	315.2	44.17	8.137	
10,600.0	10,588.8	10,589.0	10,587.3	37.3	7.4	158.28	-132.4	-27.7	366.1	321.5	44.59	8.211	
10,700.0	10,688.6	10,688.8	10,687.0	37.7	7.4	158.26	-135.0	-27.6	372.9	327.8	45.02	8.283	
10,800.0	10,788.3	10,788.6	10,786.8	38.0	7.5	158.25	-137.6	-27.6	379.6	334.1	45.44	8.353	
10,900.0	10,888.1	10,888.4	10,886.5	38.4	7.6	158.24	-140.2	-27.6	386.3	340.4	45.87	8.423	
11,000.0	10,987.9	10,988.1	10,986.3	38.7	7.6	158.23	-142.9	-27.5	393.0	346.7	46.29	8.491	
11,100.0	11,087.7	11,087.9	11,086.0	39.1	7.7	158.21	-145.5	-27.5	399.8	353.0	46.72	8.557	
11,200.0	11,187.4	11,187.7	11,185.7	39.4	7.8	158.20	-148.1	-27.4	406.5	359.3	47.14	8.623	
11,300.0	11,287.2	11,287.4	11,285.5	39.8	7.9	158.19	-150.7	-27.4	413.2	365.6	47.57	8.687	
11,400.0	11,387.0	11,387.2	11,385.2	40.2	7.9	158.18	-153.3	-27.3	419.9	371.9	47.99	8.750	
11,500.0	11,486.7	11,487.0	11,485.0	40.5	8.0	158.17	-155.9	-27.3	426.7	378.2	48.42	8.812	
11,600.0	11,586.5	11,586.8	11,584.7	40.9	8.1	158.16	-158.5	-27.2	433.4	384.5	48.84	8.873	
11,700.0	11,686.3	11,686.5	11,684.4	41.2	8.2	158.15	-161.1	-27.2	440.1	390.8	49.27	8.932	
11,800.0	11,786.1	11,786.3	11,784.2	41.6	8.2	158.14	-163.8	-27.1	446.8	397.1	49.70	8.991	
11,900.0	11,885.8	11,886.1	11,883.9	41.9	8.3	158.13	-166.4	-27.1	453.5	403.4	50.12	9.049	
12,000.0	11,985.6	11,985.9	11,983.7	42.3	8.4	158.12	-169.0	-27.1	460.3	409.7	50.55	9.105	
12,100.0	12,085.4	12,085.6	12,083.4	42.6	8.5	137.11	-171.6	-27.0	467.0	416.0	50.98	9.160	
12,200.0	12,184.2	12,184.8	12,182.5	43.0	8.6	96.60	-174.2	-27.0	471.5	420.1	51.39	9.175	
12,300.0	12,279.4	12,280.7	12,278.4	43.3	8.6	92.25	-176.7	-26.9	473.7	422.0	51.78	9.149	
12,400.0	12,367.9	12,370.4	12,368.1	43.6	8.7	93.88	-179.0	-26.9	476.5	424.4	52.12	9.143	
12,500.0	12,447.2	12,454.9	12,452.4	43.9	8.7	97.44	-183.1	-26.8	483.8	431.4	52.43	9.228	
12,600.0	12,514.8	12,547.0	12,542.9	44.1	8.8	101.66	-200.1	-26.7	497.4	444.6	52.79	9.422	

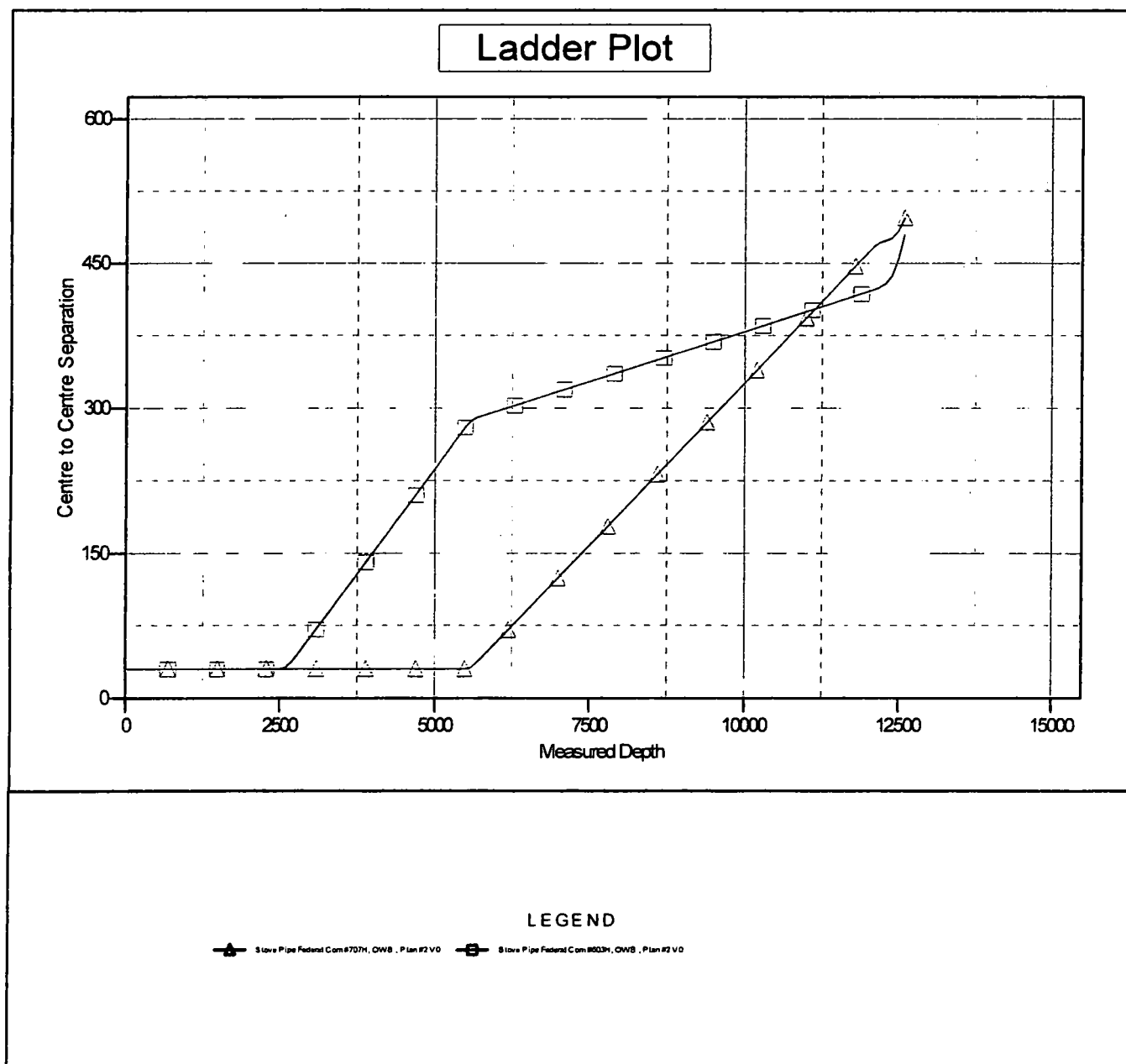
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

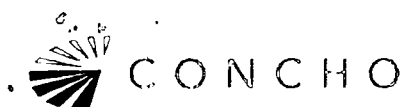
Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3379.2usft (Precision 106)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Stove Pipe Federal Com #706H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30°
 Grid Convergence at Surface is: 0.49°





Intrepid Anticollision Report



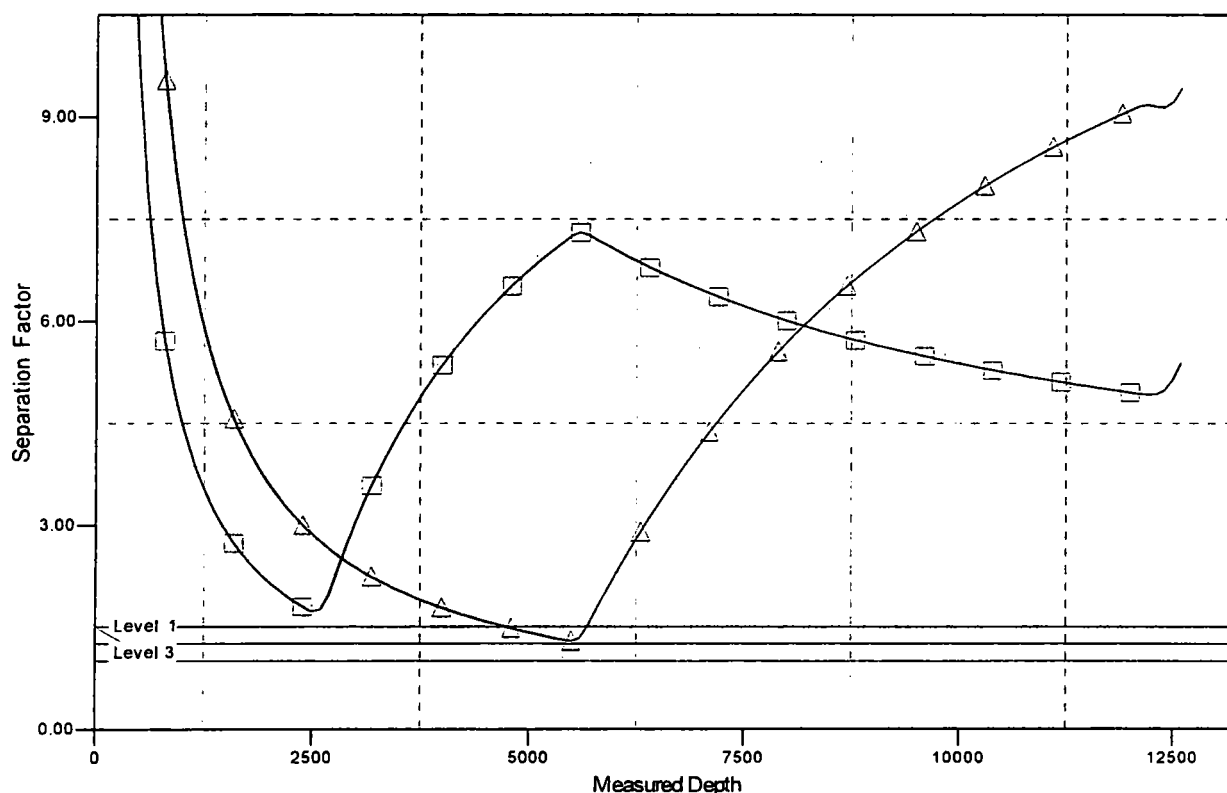
Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Reference Site: (Stove Pipe Federal) Sec-31_T-24-S_R-35-E
Site Error: 0.0 usft
Reference Well: Stove Pipe Federal Com #706H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: Plan #3

Local Co-ordinate Reference: Well Stove Pipe Federal Com #706H
TVD Reference: KB @ 3379.2usft (Precision 106)
MD Reference: KB @ 3379.2usft (Precision 106)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDM 5000.15 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3379.2usft (Precision 106)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Stove Pipe Federal Com #706H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30°
 Grid Convergence at Surface is: 0.49°

Separation Factor Plot



LEGEND

▲ Stove Pipe Federal Com #707H, OWB, Plan #2 VO ■ Stove Pipe Federal Com #8003H, OWB, Plan #2 VO

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

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Phone: (505) 748-1853 Fax: (505) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1520 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3468

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 46503	Pool Code	Pool Name Wildcat; Wolfcamp
Property Code	Property Name STOVE PIPE FEDERAL COM	Well Number 706H
OCRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3348.2'

Surface Location

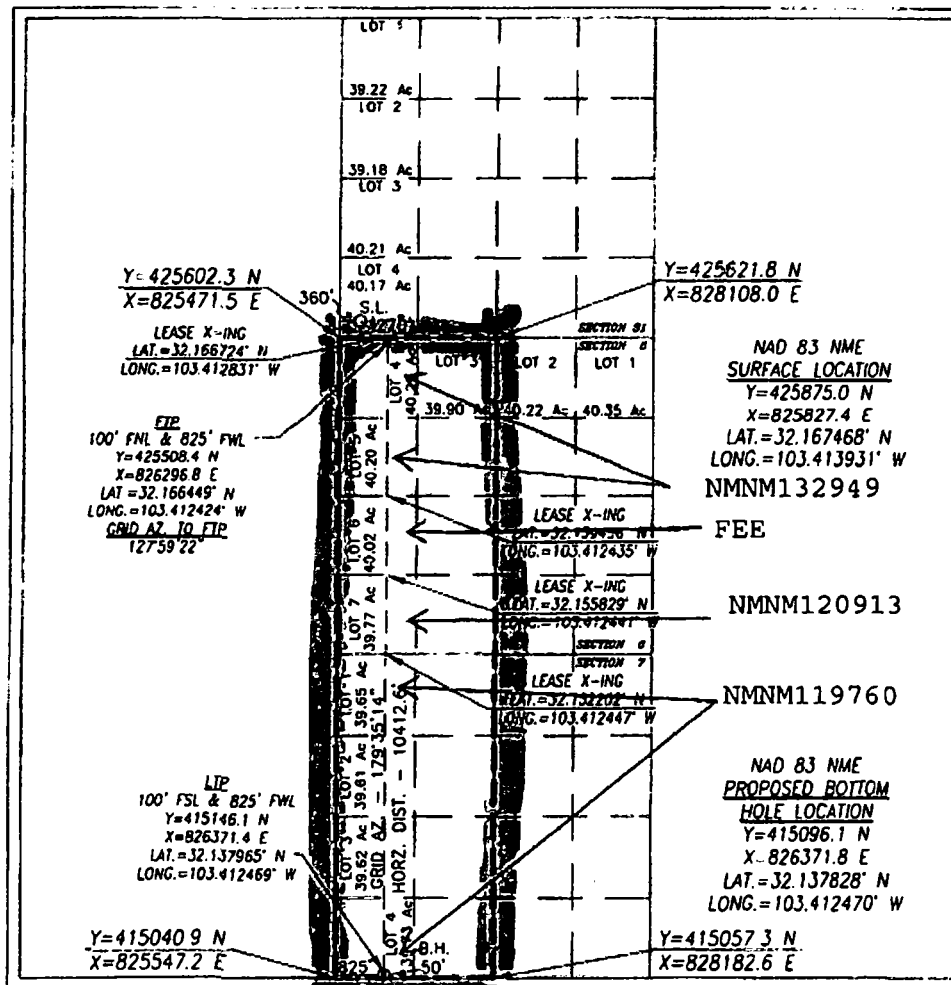
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	24-S	35-E		270	SOUTH	360	WEST	LEA

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
4	7	25-S	35-E		50	SOUTH	825	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
639.08			

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



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.

Signature: *Mayte Reyes* Date: 12-9-19

Printed Name: Mayte Reyes

E-mail Address: mreyes1@concho.com

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 24, 2019

Date of Survey

Signature and Seal of Professional Surveyor



Signature: *Chad Harcrow* Date: 10/31/19
Certificate No. CHAD HARCROW 17777
W.O. # 19-2008 DRAWN BY: DS

Per LR2000 Sec. 6 Lot 3: 40.15 Lot 4: 40.36 Lot 5: 40.12 Lot 6: 39.94 Lot 7: 39.75
Sec. 7 Lot 1: 39.67 Lot 2: 39.68 Lot 3: 39.70 Lot 4: 39.71