

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELL HOBBES OGD
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

AUG 26 2019

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM43565
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 27 T22S R34E SESW 220FSL 2010FWL		8. Well Name and No. SQUINTS FEDERAL COM 7H
		9. API Well No. 30-025-43167-00-X1
		10. Field and Pool or Exploratory Area OJO CHISO
		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 recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating respectfully requests approval for the following changes to the originally approved APD.

BHL Change

From: 330 FNL & 1980' FWL Section 22. T22S. R34E
To: 50' FNL & 2310' FWL Section 22. T22S. R34E.

C102 attached.

Directional plan attached.
AC attached.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #478032 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 08/15/2019 (19PP2860SE)	
Name (Printed/Typed) MAYTE X REYES	Title SENIOR REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/14/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>DYLAN ROSSMANGO</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>08/16/2019</u>
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 ****

Kd

Revisions to Operator-Submitted EC Data for Sundry Notice #478032

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM43565	NMNM43565
Agreement:		
Operator:	COG OPERATING LLC 2208 WEST MAIN STREET ARTESIA, NM 88210 Ph: 575-748-6940	COG OPERATING LLC ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701-4287 Ph: 432.685.4342
Admin Contact:	MAYTE X REYES SENIOR REGULATORY ANALYST E-Mail: mreyes1@concho.com Ph: 575-748-6945	MAYTE X REYES SENIOR REGULATORY ANALYST E-Mail: mreyes1@concho.com Ph: 575-748-6945
Tech Contact:	MAYTE X REYES SENIOR REGULATORY ANALYST E-Mail: mreyes1@concho.com Ph: 575-748-6945	MAYTE X REYES SENIOR REGULATORY ANALYST E-Mail: mreyes1@concho.com Ph: 575-748-6945
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	OJO CHISO; BONE SPRING	OJO CHISO
Well/Facility:	SQUINTS FEDERAL COM 7H Sec 27 T22S R34E SESW 220FSL 2010FWL	SQUINTS FEDERAL COM 7H Sec 27 T22S R34E SESW 220FSL 2010FWL

DISTRICT I
1035 N. YERGENE DR., HOBBBS, NM 87040
Phone: (505) 882-0101 Fax: (505) 882-0780

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 746-1283 Fax: (505) 746-0780

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3485 Fax: (505) 476-3483

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

HOBBBS OCP

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AUG 26 2019

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION

RECEIVED

API Number 30-025-43167	Pool Code 96553	Pool Name Ojo Chiso; Bone Spring
Property Code 316103	Property Name SQUINTS FEDERAL COM	Well Number 7H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3404.1'

Surface Location

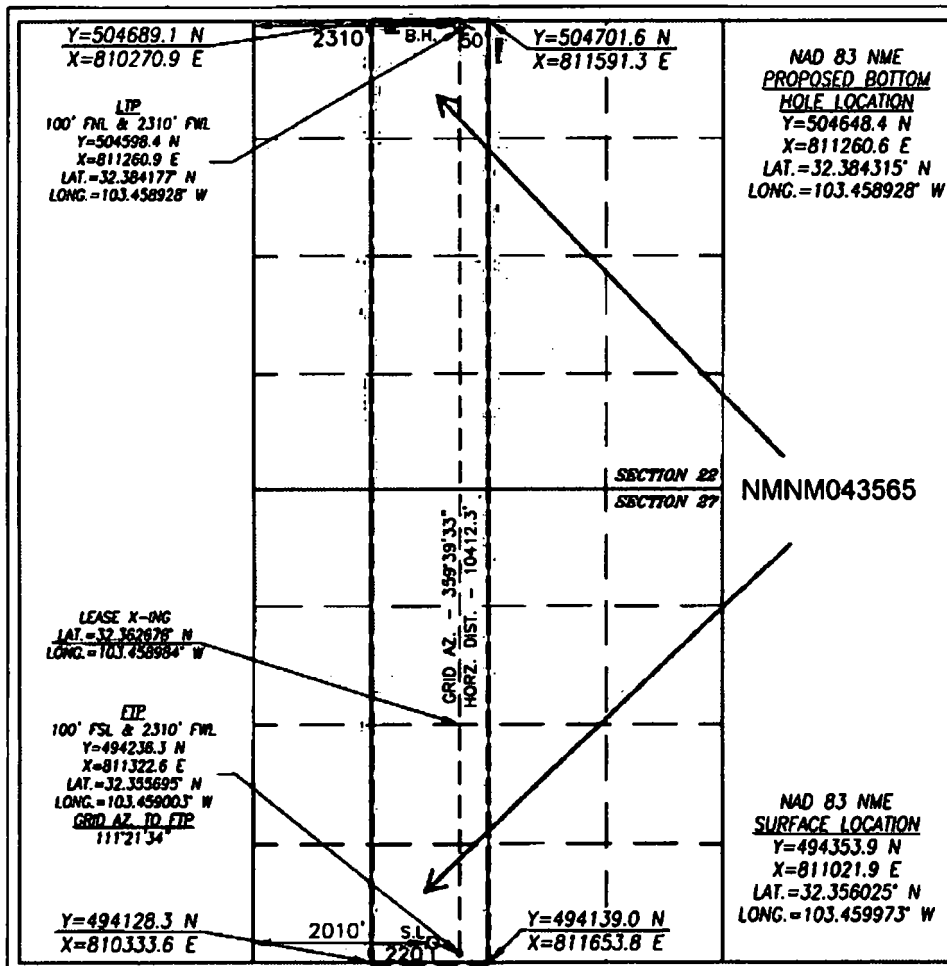
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	22-S	34-E		220	SOUTH	2010	WEST	LEA

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
C	22	22-S	34-E		50	NORTH	2310	WEST	LEA

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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 undivided 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: 8-6-19

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.

JUNE 27, 2019

Date of Survey

Signature & Seal of Professional Surveyor



Signature: *Chad HARCROW* 7/3/19
Certificate No. CHAD HARCROW 17777
W.O. #19-1203 DRAWN BY: WN



CONCHO

Concho Resources, Inc.

Lea County, NM (NAD 27 NME)
(Squints Federal) Sec-27_T-22-S_R-34-E
Squints Federal Com #7H

OWB

Plan: Plan #1

Standard Planning Report

06 August, 2019

 **INTREPID**



Intrepid
Planning Report



Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Site: (Squints Federal) Sec-27_T-22-S_R-34-E
Well: Squints Federal Com #7H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Squints Federal Com #7H
TVD Reference: KB @ 3435.1usft (Precision 106)
MD Reference: KB @ 3435.1usft (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 (Squints Federal) Sec-27_T-22-S_R-34-E

Site Position: **Northing:** 494,293.40 usft **Latitude:** 32° 21' 21.245 N
From: Map **Easting:** 769,808.60 usft **Longitude:** 103° 27' 34.527 W
Position Uncertainty: 0.0 usft **Slot Radius:** 13-3/16" **Grid Convergence:** 0.47°

Well Squints Federal Com #7H

Well Position **+N/-S** 0.2 usft **Northing:** 494,293.60 usft **Latitude:** 32° 21' 21.244 N
+E/-W 30.0 usft **Easting:** 769,838.60 usft **Longitude:** 103° 27' 34.177 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** **Ground Level:** 3,404.1 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	08/06/19	6.68	60.17	47,807.98143920

Design Plan #1

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	1.33

Plan Survey Tool Program **Date** 08/06/19

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	9,801.6 Plan #1 (OWB)	Standard Keeper 104	
			Standard Wireline Keeper v	
2	9,801.6	20,615.4 Plan #1 (OWB)	MWD+IFR1+MS	
			MWD + IFR1 + Multi-Station	

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	
5,714.2	4.28	122.60	5,714.0	-4.3	6.7	2.00	2.00	57.24	122.60	
9,801.6	4.28	122.60	9,789.9	-168.8	263.9	0.00	0.00	0.00	0.00	
10,725.9	90.11	359.66	10,385.0	405.0	298.0	10.00	9.28	-13.30	-122.86	
20,615.4	90.11	359.66	10,366.0	10,294.3	238.9	0.00	0.00	0.00	0.00	PBHL (Squints Fed)



Intrepid
Planning Report



Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Lea County, NM (NAD 27 NME)
Site: (Squints Federal) Sec-27_T-22-S_R-34-E
Well: Squints Federal Com #7H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Squints Federal Com #7H
TVD Reference: KB @ 3435.1usft (Precision 106)
MD Reference: KB @ 3435.1usft (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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,630.0	0.00	0.00	1,630.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
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
2,083.0	0.00	0.00	2,083.0	0.0	0.0	0.0	0.00	0.00	0.00
TOS									
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
3,698.0	0.00	0.00	3,698.0	0.0	0.0	0.0	0.00	0.00	0.00
Yates									
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
3,880.0	0.00	0.00	3,880.0	0.0	0.0	0.0	0.00	0.00	0.00
Seven Rivers									
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
4,034.0	0.00	0.00	4,034.0	0.0	0.0	0.0	0.00	0.00	0.00
Capitan Reef									
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



Intrepid
Planning Report



Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
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TVD Reference: KB @ 3435.1usft (Precision 106)
MD Reference: KB @ 3435.1usft (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)
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
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
5,300.0	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
5,409.0	0.00	0.00	5,409.0	0.0	0.0	0.0	0.00	0.00	0.00
Base of Reef (BLCN)									
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - DLS 2.00 TFO 122.60									
5,600.0	2.00	122.60	5,600.0	-0.9	1.5	-0.9	2.00	2.00	0.00
5,700.0	4.00	122.60	5,699.8	-3.8	5.9	-3.6	2.00	2.00	0.00
5,714.2	4.28	122.60	5,714.0	-4.3	6.7	-4.2	2.00	2.00	0.00
HOLD - 4087.4 at 5714.2 MD									
5,767.3	4.28	122.60	5,767.0	-6.5	10.1	-6.2	0.00	0.00	0.00
CYCN									
5,800.0	4.28	122.60	5,799.6	-7.8	12.1	-7.5	0.00	0.00	0.00
5,900.0	4.28	122.60	5,899.3	-11.8	18.4	-11.4	0.00	0.00	0.00
6,000.0	4.28	122.60	5,999.0	-15.8	24.7	-15.2	0.00	0.00	0.00
6,100.0	4.28	122.60	6,098.7	-19.8	31.0	-19.1	0.00	0.00	0.00
6,200.0	4.28	122.60	6,198.4	-23.9	37.3	-23.0	0.00	0.00	0.00
6,300.0	4.28	122.60	6,298.2	-27.9	43.6	-26.9	0.00	0.00	0.00
6,400.0	4.28	122.60	6,397.9	-31.9	49.9	-30.7	0.00	0.00	0.00
6,500.0	4.28	122.60	6,497.6	-35.9	56.2	-34.6	0.00	0.00	0.00
6,600.0	4.28	122.60	6,597.3	-40.0	62.5	-38.5	0.00	0.00	0.00
6,700.0	4.28	122.60	6,697.0	-44.0	68.8	-42.4	0.00	0.00	0.00
6,800.0	4.28	122.60	6,796.8	-48.0	75.1	-46.3	0.00	0.00	0.00
6,900.0	4.28	122.60	6,896.5	-52.0	81.4	-50.1	0.00	0.00	0.00
7,000.0	4.28	122.60	6,996.2	-56.1	87.7	-54.0	0.00	0.00	0.00
7,100.0	4.28	122.60	7,095.9	-60.1	93.9	-57.9	0.00	0.00	0.00
7,187.3	4.28	122.60	7,183.0	-63.6	99.4	-61.3	0.00	0.00	0.00
BYCN									
7,200.0	4.28	122.60	7,195.6	-64.1	100.2	-61.8	0.00	0.00	0.00
7,300.0	4.28	122.60	7,295.4	-68.1	106.5	-65.6	0.00	0.00	0.00
7,400.0	4.28	122.60	7,395.1	-72.2	112.8	-69.5	0.00	0.00	0.00
7,500.0	4.28	122.60	7,494.8	-76.2	119.1	-73.4	0.00	0.00	0.00
7,600.0	4.28	122.60	7,594.5	-80.2	125.4	-77.3	0.00	0.00	0.00
7,700.0	4.28	122.60	7,694.3	-84.2	131.7	-81.1	0.00	0.00	0.00
7,800.0	4.28	122.60	7,794.0	-88.3	138.0	-85.0	0.00	0.00	0.00
7,900.0	4.28	122.60	7,893.7	-92.3	144.3	-88.9	0.00	0.00	0.00
8,000.0	4.28	122.60	7,993.4	-96.3	150.6	-92.8	0.00	0.00	0.00
8,100.0	4.28	122.60	8,093.1	-100.3	156.9	-96.7	0.00	0.00	0.00
8,200.0	4.28	122.60	8,192.9	-104.3	163.2	-100.5	0.00	0.00	0.00
8,300.0	4.28	122.60	8,292.6	-108.4	169.5	-104.4	0.00	0.00	0.00
8,400.0	4.28	122.60	8,392.3	-112.4	175.8	-108.3	0.00	0.00	0.00
8,500.0	4.28	122.60	8,492.0	-116.4	182.0	-112.2	0.00	0.00	0.00
8,523.0	4.28	122.60	8,515.0	-117.3	183.5	-113.1	0.00	0.00	0.00



Intrepid Planning Report



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Design: Plan #1

Local Co-ordinate Reference: Well Squints Federal Com #7H
TVD Reference: KB @ 3435.1usft (Precision 106)
MD Reference: KB @ 3435.1usft (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)
Bone Spring (BSGL)									
8,600.0	4.28	122.60	8,591.7	-120.4	188.3	-116.0	0.00	0.00	0.00
8,700.0	4.28	122.60	8,691.5	-124.5	194.6	-119.9	0.00	0.00	0.00
8,800.0	4.28	122.60	8,791.2	-128.5	200.9	-123.8	0.00	0.00	0.00
8,900.0	4.28	122.60	8,890.9	-132.5	207.2	-127.7	0.00	0.00	0.00
9,000.0	4.28	122.60	8,990.6	-136.5	213.5	-131.6	0.00	0.00	0.00
9,100.0	4.28	122.60	9,090.3	-140.6	219.8	-135.4	0.00	0.00	0.00
9,200.0	4.28	122.60	9,190.1	-144.6	226.1	-139.3	0.00	0.00	0.00
9,300.0	4.28	122.60	9,289.8	-148.6	232.4	-143.2	0.00	0.00	0.00
9,400.0	4.28	122.60	9,389.5	-152.6	238.7	-147.1	0.00	0.00	0.00
9,500.0	4.28	122.60	9,489.2	-156.7	245.0	-150.9	0.00	0.00	0.00
9,600.0	4.28	122.60	9,588.9	-160.7	251.3	-154.8	0.00	0.00	0.00
9,606.1	4.28	122.60	9,595.0	-160.9	251.6	-155.1	0.00	0.00	0.00
FBSG_sand									
9,700.0	4.28	122.60	9,688.7	-164.7	257.6	-158.7	0.00	0.00	0.00
9,801.6	4.28	122.60	9,789.9	-168.8	263.9	-162.6	0.00	0.00	0.00
KOP - DLS 10.00 TFO -122.86									
9,850.0	4.39	54.66	9,838.3	-168.7	267.0	-162.5	10.00	0.22	-140.27
9,900.0	8.33	25.10	9,888.0	-164.3	270.1	-158.0	10.00	7.88	-59.13
9,950.0	13.01	15.45	9,937.1	-155.6	273.1	-149.2	10.00	9.37	-19.30
10,000.0	17.87	10.91	9,985.3	-142.6	276.1	-136.2	10.00	9.71	-9.08
10,050.0	22.79	8.27	10,032.1	-125.5	278.9	-119.0	10.00	9.83	-5.27
10,075.0	25.26	7.32	10,055.0	-115.4	280.3	-108.9	10.00	9.88	-3.80
SBSG_sand									
10,100.0	27.73	6.53	10,077.4	-104.4	281.6	-97.8	10.00	9.90	-3.16
10,150.0	32.69	5.29	10,120.5	-79.3	284.2	-72.7	10.00	9.92	-2.49
10,200.0	37.66	4.34	10,161.4	-50.6	286.6	-44.0	10.00	9.94	-1.90
10,250.0	42.64	3.58	10,199.6	-18.5	288.8	-11.8	10.00	9.95	-1.51
10,300.0	47.62	2.95	10,234.9	16.9	290.8	23.6	10.00	9.96	-1.25
10,350.0	52.60	2.42	10,266.9	55.2	292.6	62.0	10.00	9.97	-1.07
10,400.0	57.59	1.95	10,295.5	96.1	294.2	102.9	10.00	9.97	-0.93
10,450.0	62.57	1.53	10,320.5	139.5	295.5	146.3	10.00	9.97	-0.84
10,500.0	67.56	1.15	10,341.5	184.8	296.6	191.6	10.00	9.98	-0.76
10,550.0	72.55	0.80	10,358.6	231.7	297.4	238.6	10.00	9.98	-0.71
10,600.0	77.54	0.46	10,371.5	280.0	297.9	286.9	10.00	9.98	-0.67
10,650.0	82.53	0.14	10,380.1	329.3	298.1	336.1	10.00	9.98	-0.65
10,700.0	87.52	359.82	10,384.5	379.1	298.1	385.9	10.00	9.98	-0.63
10,725.9	90.11	359.66	10,385.0	405.0	298.0	411.8	10.00	9.98	-0.63
EOC - 9889.5 hold at 10725.9 MD									
10,800.0	90.11	359.66	10,384.9	479.1	297.6	485.8	0.00	0.00	0.00
10,900.0	90.11	359.66	10,384.7	579.0	297.0	585.8	0.00	0.00	0.00
11,000.0	90.11	359.66	10,384.5	679.0	296.4	685.7	0.00	0.00	0.00
11,100.0	90.11	359.66	10,384.3	779.0	295.8	785.7	0.00	0.00	0.00
11,200.0	90.11	359.66	10,384.1	879.0	295.2	885.7	0.00	0.00	0.00
11,300.0	90.11	359.66	10,383.9	979.0	294.6	985.6	0.00	0.00	0.00
11,400.0	90.11	359.66	10,383.7	1,079.0	294.0	1,085.6	0.00	0.00	0.00
11,500.0	90.11	359.66	10,383.5	1,179.0	293.4	1,185.5	0.00	0.00	0.00
11,600.0	90.11	359.66	10,383.3	1,279.0	292.8	1,285.5	0.00	0.00	0.00
11,700.0	90.11	359.66	10,383.1	1,379.0	292.2	1,385.4	0.00	0.00	0.00
11,800.0	90.11	359.66	10,382.9	1,479.0	291.6	1,485.4	0.00	0.00	0.00
11,900.0	90.11	359.66	10,382.7	1,579.0	291.0	1,585.4	0.00	0.00	0.00
12,000.0	90.11	359.66	10,382.6	1,679.0	290.4	1,685.3	0.00	0.00	0.00
12,100.0	90.11	359.66	10,382.4	1,779.0	289.8	1,785.3	0.00	0.00	0.00
12,200.0	90.11	359.66	10,382.2	1,879.0	289.2	1,885.2	0.00	0.00	0.00



Intrepid
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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)
12,300.0	90.11	359.66	10,382.0	1,979.0	288.6	1,985.2	0.00	0.00	0.00
12,400.0	90.11	359.66	10,381.8	2,079.0	288.0	2,085.1	0.00	0.00	0.00
12,500.0	90.11	359.66	10,381.6	2,179.0	287.4	2,185.1	0.00	0.00	0.00
12,600.0	90.11	359.66	10,381.4	2,279.0	286.8	2,285.1	0.00	0.00	0.00
12,700.0	90.11	359.66	10,381.2	2,379.0	286.2	2,385.0	0.00	0.00	0.00
12,800.0	90.11	359.66	10,381.0	2,479.0	285.6	2,485.0	0.00	0.00	0.00
12,900.0	90.11	359.66	10,380.8	2,579.0	285.0	2,584.9	0.00	0.00	0.00
13,000.0	90.11	359.66	10,380.6	2,679.0	284.4	2,684.9	0.00	0.00	0.00
13,100.0	90.11	359.66	10,380.4	2,779.0	283.8	2,784.8	0.00	0.00	0.00
13,200.0	90.11	359.66	10,380.2	2,879.0	283.2	2,884.8	0.00	0.00	0.00
13,300.0	90.11	359.66	10,380.1	2,979.0	282.6	2,984.8	0.00	0.00	0.00
13,400.0	90.11	359.66	10,379.9	3,079.0	282.0	3,084.7	0.00	0.00	0.00
13,500.0	90.11	359.66	10,379.7	3,179.0	281.4	3,184.7	0.00	0.00	0.00
13,600.0	90.11	359.66	10,379.5	3,279.0	280.8	3,284.6	0.00	0.00	0.00
13,700.0	90.11	359.66	10,379.3	3,379.0	280.2	3,384.6	0.00	0.00	0.00
13,800.0	90.11	359.66	10,379.1	3,479.0	279.6	3,484.5	0.00	0.00	0.00
13,900.0	90.11	359.66	10,378.9	3,579.0	279.0	3,584.5	0.00	0.00	0.00
14,000.0	90.11	359.66	10,378.7	3,679.0	278.4	3,684.5	0.00	0.00	0.00
14,100.0	90.11	359.66	10,378.5	3,779.0	277.8	3,784.4	0.00	0.00	0.00
14,200.0	90.11	359.66	10,378.3	3,879.0	277.2	3,884.4	0.00	0.00	0.00
14,300.0	90.11	359.66	10,378.1	3,979.0	276.6	3,984.3	0.00	0.00	0.00
14,400.0	90.11	359.66	10,377.9	4,079.0	276.0	4,084.3	0.00	0.00	0.00
14,500.0	90.11	359.66	10,377.7	4,179.0	275.4	4,184.2	0.00	0.00	0.00
14,600.0	90.11	359.66	10,377.6	4,279.0	274.8	4,284.2	0.00	0.00	0.00
14,700.0	90.11	359.66	10,377.4	4,379.0	274.3	4,384.2	0.00	0.00	0.00
14,800.0	90.11	359.66	10,377.2	4,479.0	273.7	4,484.1	0.00	0.00	0.00
14,900.0	90.11	359.66	10,377.0	4,579.0	273.1	4,584.1	0.00	0.00	0.00
15,000.0	90.11	359.66	10,376.8	4,679.0	272.5	4,684.0	0.00	0.00	0.00
15,100.0	90.11	359.66	10,376.6	4,779.0	271.9	4,784.0	0.00	0.00	0.00
15,200.0	90.11	359.66	10,376.4	4,879.0	271.3	4,883.9	0.00	0.00	0.00
15,300.0	90.11	359.66	10,376.2	4,979.0	270.7	4,983.9	0.00	0.00	0.00
15,400.0	90.11	359.66	10,376.0	5,079.0	270.1	5,083.9	0.00	0.00	0.00
15,500.0	90.11	359.66	10,375.8	5,179.0	269.5	5,183.8	0.00	0.00	0.00
15,600.0	90.11	359.66	10,375.6	5,279.0	268.9	5,283.8	0.00	0.00	0.00
15,700.0	90.11	359.66	10,375.4	5,379.0	268.3	5,383.7	0.00	0.00	0.00
15,800.0	90.11	359.66	10,375.3	5,479.0	267.7	5,483.7	0.00	0.00	0.00
15,900.0	90.11	359.66	10,375.1	5,578.9	267.1	5,583.6	0.00	0.00	0.00
16,000.0	90.11	359.66	10,374.9	5,678.9	266.5	5,683.6	0.00	0.00	0.00
16,100.0	90.11	359.66	10,374.7	5,778.9	265.9	5,783.6	0.00	0.00	0.00
16,200.0	90.11	359.66	10,374.5	5,878.9	265.3	5,883.5	0.00	0.00	0.00
16,300.0	90.11	359.66	10,374.3	5,978.9	264.7	5,983.5	0.00	0.00	0.00
16,400.0	90.11	359.66	10,374.1	6,078.9	264.1	6,083.4	0.00	0.00	0.00
16,500.0	90.11	359.66	10,373.9	6,178.9	263.5	6,183.4	0.00	0.00	0.00
16,600.0	90.11	359.66	10,373.7	6,278.9	262.9	6,283.3	0.00	0.00	0.00
16,700.0	90.11	359.66	10,373.5	6,378.9	262.3	6,383.3	0.00	0.00	0.00
16,800.0	90.11	359.66	10,373.3	6,478.9	261.7	6,483.3	0.00	0.00	0.00
16,900.0	90.11	359.66	10,373.1	6,578.9	261.1	6,583.2	0.00	0.00	0.00
17,000.0	90.11	359.66	10,372.9	6,678.9	260.5	6,683.2	0.00	0.00	0.00
17,100.0	90.11	359.66	10,372.8	6,778.9	259.9	6,783.1	0.00	0.00	0.00
17,200.0	90.11	359.66	10,372.6	6,878.9	259.3	6,883.1	0.00	0.00	0.00
17,300.0	90.11	359.66	10,372.4	6,978.9	258.7	6,983.0	0.00	0.00	0.00
17,400.0	90.11	359.66	10,372.2	7,078.9	258.1	7,083.0	0.00	0.00	0.00
17,500.0	90.11	359.66	10,372.0	7,178.9	257.5	7,183.0	0.00	0.00	0.00
17,600.0	90.11	359.66	10,371.8	7,278.9	256.9	7,282.9	0.00	0.00	0.00



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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)
17,700.0	90.11	359.66	10,371.6	7,378.9	256.3	7,382.9	0.00	0.00	0.00
17,800.0	90.11	359.66	10,371.4	7,478.9	255.7	7,482.8	0.00	0.00	0.00
17,900.0	90.11	359.66	10,371.2	7,578.9	255.1	7,582.8	0.00	0.00	0.00
18,000.0	90.11	359.66	10,371.0	7,678.9	254.5	7,682.7	0.00	0.00	0.00
18,100.0	90.11	359.66	10,370.8	7,778.9	253.9	7,782.7	0.00	0.00	0.00
18,200.0	90.11	359.66	10,370.6	7,878.9	253.3	7,882.7	0.00	0.00	0.00
18,300.0	90.11	359.66	10,370.4	7,978.9	252.7	7,982.6	0.00	0.00	0.00
18,400.0	90.11	359.66	10,370.3	8,078.9	252.1	8,082.6	0.00	0.00	0.00
18,500.0	90.11	359.66	10,370.1	8,178.9	251.5	8,182.5	0.00	0.00	0.00
18,600.0	90.11	359.66	10,369.9	8,278.9	250.9	8,282.5	0.00	0.00	0.00
18,700.0	90.11	359.66	10,369.7	8,378.9	250.3	8,382.4	0.00	0.00	0.00
18,800.0	90.11	359.66	10,369.5	8,478.9	249.7	8,482.4	0.00	0.00	0.00
18,900.0	90.11	359.66	10,369.3	8,578.9	249.2	8,582.4	0.00	0.00	0.00
19,000.0	90.11	359.66	10,369.1	8,678.9	248.6	8,682.3	0.00	0.00	0.00
19,100.0	90.11	359.66	10,368.9	8,778.9	248.0	8,782.3	0.00	0.00	0.00
19,200.0	90.11	359.66	10,368.7	8,878.9	247.4	8,882.2	0.00	0.00	0.00
19,300.0	90.11	359.66	10,368.5	8,978.9	246.8	8,982.2	0.00	0.00	0.00
19,400.0	90.11	359.66	10,368.3	9,078.9	246.2	9,082.1	0.00	0.00	0.00
19,500.0	90.11	359.66	10,368.1	9,178.9	245.6	9,182.1	0.00	0.00	0.00
19,600.0	90.11	359.66	10,368.0	9,278.9	245.0	9,282.1	0.00	0.00	0.00
19,700.0	90.11	359.66	10,367.8	9,378.9	244.4	9,382.0	0.00	0.00	0.00
19,800.0	90.11	359.66	10,367.6	9,478.9	243.8	9,482.0	0.00	0.00	0.00
19,900.0	90.11	359.66	10,367.4	9,578.9	243.2	9,581.9	0.00	0.00	0.00
20,000.0	90.11	359.66	10,367.2	9,678.9	242.6	9,681.9	0.00	0.00	0.00
20,100.0	90.11	359.66	10,367.0	9,778.9	242.0	9,781.8	0.00	0.00	0.00
20,200.0	90.11	359.66	10,366.8	9,878.9	241.4	9,881.8	0.00	0.00	0.00
20,300.0	90.11	359.66	10,366.6	9,978.9	240.8	9,981.8	0.00	0.00	0.00
20,400.0	90.11	359.66	10,366.4	10,078.9	240.2	10,081.7	0.00	0.00	0.00
20,500.0	90.11	359.66	10,366.2	10,178.9	239.6	10,181.7	0.00	0.00	0.00
20,600.0	90.11	359.66	10,366.0	10,278.9	239.0	10,281.6	0.00	0.00	0.00
20,615.4	90.11	359.66	10,366.0	10,294.3	238.9	10,297.1	0.00	0.00	0.00

TD at 20615.4

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (Squints Federal - plan misses target center by 0.1usft at 20565.4usft MD (10366.1 TVD, 10244.3 N, 239.2 E) - Point	0.00	0.00	10,366.0	10,244.3	239.2	504,537.90	770,077.80	32° 23' 2.592 N	103° 27' 30.413 W
PBHL (Squints Federal - plan hits target center - Rectangle (sides W60.0 H10,412.0 D20.0)	-0.11	359.66	10,366.0	10,294.3	238.9	504,587.90	770,077.50	32° 23' 3.087 N	103° 27' 30.411 W
FTP (Squints Federal - plan misses target center by 201.7usft at 10300.0usft MD (10234.9 TVD, 16.9 N, 290.8 E) - Point	0.00	0.00	10,385.0	-117.5	300.6	494,176.10	770,139.20	32° 21' 20.057 N	103° 27' 30.685 W



Intrepid
Planning Report



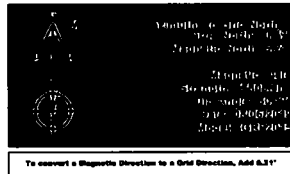
Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Squints Federal Com #7H
Company:	Concho Resources, Inc.	TVD Reference:	KB @ 3435.1usft (Precision 106)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB @ 3435.1usft (Precision 106)
Site:	(Squints Federal) Sec-27_T-22-S_R-34-E	North Reference:	Grid
Well:	Squints Federal Com #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,630.0	1,630.0	Rustler			
2,083.0	2,083.0	TOS			
3,698.0	3,698.0	Yates			
3,880.0	3,880.0	Seven Rivers			
4,034.0	4,034.0	Capitan Reef			
5,409.0	5,409.0	Base of Reef (BLCN)			
5,767.3	5,767.0	CYCN			
7,187.3	7,183.0	BYCN			
8,523.0	8,515.0	Bone Spring (BSGL)			
9,606.1	9,595.0	FBSG_sand			
10,075.0	10,055.0	SBSG_sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,500.0	5,500.0	0.0	0.0	NUDGE - DLS 2.00 TFO 122.60
5,714.2	5,714.0	-4.3	6.7	HOLD - 4087.4 at 5714.2 MD
9,801.6	9,789.9	-168.8	263.9	KOP - DLS 10.00 TFO -122.86
10,725.9	10,385.0	405.0	298.0	EOC - 9889.5 hold at 10725.9 MD
20,615.4	10,366.0	10,294.3	238.9	TD at 20615.4



Concho Resources, Inc.
Project: Las County, NM (NAD 27 NME)
Site: (Squinta Federal) Sec-37, T-22-S, R-34-E
Well: Squinta Federal Com #7H
Wellbore: OWB
Design: Plan #1
Lat: 32° 21' 21.244 N
Long: 103° 27' 34.177 W
Pad GL: 3404.1
KB: KB @ 3435.1usft (Precision 106)

