

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 278940

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-46959
4. Property Code 327858	5. Property Name SCOUT STATE COM	6. Well No. 605H

7. Surface Location

UL - Lot D	Section 6	Township 25S	Range 28E	Lot Idn	Feet From 875	N/S Line N	Feet From 796	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 18	Township 25S	Range 28E	Lot Idn M	Feet From 200	N/S Line S	Feet From 1232	E/W Line W	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3064
16. Multiple N	17. Proposed Depth 24213	18. Formation Wolfcamp	19. Contractor	20. Spud Date 9/19/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	550	550	0
Int1	12.25	9.625	40	8500	1000	0
Prod	8.75	5.5	20	24213	3500	0

Casing/Cement Program: Additional Comments

Drill 17-1/2" hole to ~550' w/ fresh water spud mud. Run 13-3/8" 54.5# J-55 BTC casing to TD and cement to surface in one stage. Drill 12-1/4" hole to ~8,500' with cut brine. Run 9-5/8 40# J-55 BTC to TD and cement to surface in one stage. Drill 8-3/4" vertical, curve and lateral to ~24,213' with OBM. Run 5.5" 20# P110 BTC casing from TD to surface and cement to surface in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Cameron
Annular	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Electronically filed by Diane Kuykendall	Approved By:	Raymond Podany
Title:	Production Accounting Director	Title:	Geologist
Email Address:	dkuykendall@concho.com	Approved Date:	4/3/2020
Date:	4/3/2020	Expiration Date:	4/3/2022
Phone:	432-685-4372	Conditions of Approval Attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp
4 Property Code	5 Property Name SCOUT STATE COM	6 Well Number 605H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3064'

" Surface Location

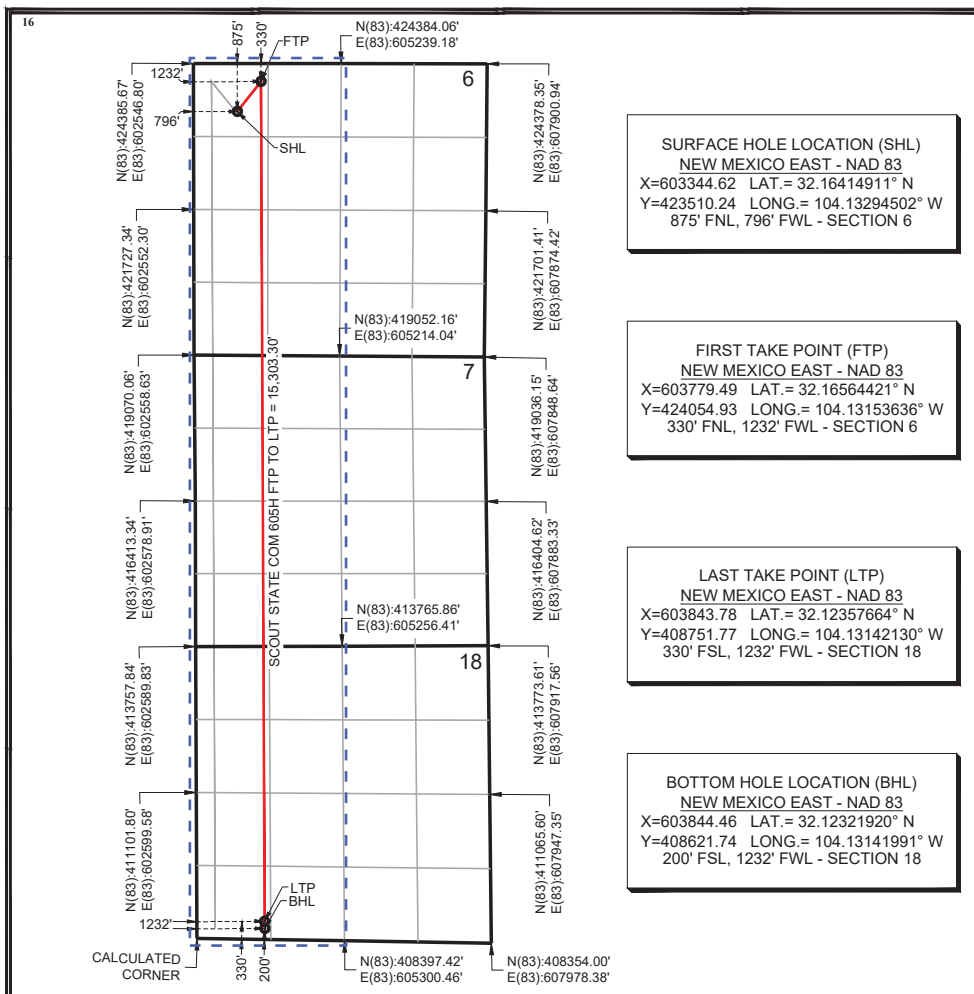
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	6	25-S	28-E		875'	NORTH	796'	WEST	EDDY

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	18	25-S	28-E		200'	SOUTH	1232'	WEST	EDDY

12 Dedicated Acres 960	13 Joint or Infill	14 Consolidation Code	15 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.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature *[Signature]* Date 04/03/2020

Printed Name Robyn M. Russell

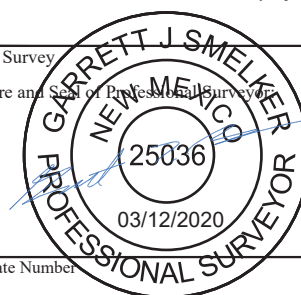
E-mail Address Rrussell@concho.com

18 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.

Date of Survey Signature and Seal of Professional Surveyor

Certificate Number



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GAS CAPTURE PLAN

Date: 4/3/2020

☒ Original

Operator & OGRID No.: [229137] COG OPERATING LLC

☐ Amended - Reason for
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SCOUT STATE COM #605H	30-015-46959	D-6-25S-28E	0875N 0796W	9610	None	It will require additional line to connect to the facility but the amount is unknown currently. Processing Plant Location: Sec 35, Blk 57, T2S, Culberson County, TX

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC Texas Pipeline, Ltd. and will be connected to ETC Texas Pipeline, Ltd. Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC Texas Pipeline, Ltd. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC Texas Pipeline, Ltd. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC Texas Pipeline, Ltd. Processing Plant located in Sec. 06, Twn. 25S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC Texas Pipeline, Ltd. system at that time. Based on current information, it is COG OPERATING LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 278940

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-46959
		Well: SCOUT STATE COM #605H

Created By	Comment	Comment Date
rodrom	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	4/3/2020

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Form APD Conditions

Permit 278940

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-46959
	Well: SCOUT STATE COM #605H

OCD Reviewer	Condition
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NORTHERN DELAWARE BASIN

**EDDY COUNTY, NM
SCOUT ST COM PROJECT
SCOUT ST COM #605H**

OWB

Plan: PWP1

Standard Survey Report

01 April, 2020

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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

Well	SCOUT ST COM #605H				
Well Position	+N/-S	0.0 usft	Northing:	423,452.25 usft	Latitude: 32° 9' 50.500 N
	+E/-W	0.0 usft	Easting:	562,161.11 usft	Longitude: 104° 7' 56.827 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,064.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/18/2020	6.91	59.88	47,563.35257342

Design	PWP1				
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	178.08	

Survey Tool Program	Date	4/1/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	24,211.9	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,500.0	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	
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	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
Start Build 2.00										
5,600.0	2.00	38.60	5,600.0	1.4	1.1	-1.3	2.00	2.00	0.00	
5,700.0	4.00	38.60	5,699.8	5.5	4.4	-5.3	2.00	2.00	0.00	

Concho Resources LLC

Survey Report

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,750.0	5.00	38.60	5,749.7	8.5	6.8	-8.3	2.00	2.00	0.00
Start 2969.0 hold at 5750.0 MD									
5,800.0	5.00	38.60	5,799.5	11.9	9.5	-11.6	0.00	0.00	0.00
5,900.0	5.00	38.60	5,899.1	18.7	15.0	-18.2	0.00	0.00	0.00
6,000.0	5.00	38.60	5,998.7	25.5	20.4	-24.8	0.00	0.00	0.00
6,100.0	5.00	38.60	6,098.4	32.4	25.8	-31.5	0.00	0.00	0.00
6,200.0	5.00	38.60	6,198.0	39.2	31.3	-38.1	0.00	0.00	0.00
6,300.0	5.00	38.60	6,297.6	46.0	36.7	-44.7	0.00	0.00	0.00
6,400.0	5.00	38.60	6,397.2	52.8	42.1	-51.3	0.00	0.00	0.00
6,500.0	5.00	38.60	6,496.8	59.6	47.6	-58.0	0.00	0.00	0.00
6,600.0	5.00	38.60	6,596.4	66.4	53.0	-64.6	0.00	0.00	0.00
6,700.0	5.00	38.60	6,696.1	73.2	58.5	-71.2	0.00	0.00	0.00
6,800.0	5.00	38.60	6,795.7	80.0	63.9	-77.8	0.00	0.00	0.00
6,900.0	5.00	38.60	6,895.3	86.8	69.3	-84.5	0.00	0.00	0.00
7,000.0	5.00	38.60	6,994.9	93.7	74.8	-91.1	0.00	0.00	0.00
7,100.0	5.00	38.60	7,094.5	100.5	80.2	-97.7	0.00	0.00	0.00
7,200.0	5.00	38.60	7,194.2	107.3	85.7	-104.3	0.00	0.00	0.00
7,300.0	5.00	38.60	7,293.8	114.1	91.1	-111.0	0.00	0.00	0.00
7,400.0	5.00	38.60	7,393.4	120.9	96.5	-117.6	0.00	0.00	0.00
7,500.0	5.00	38.60	7,493.0	127.7	102.0	-124.2	0.00	0.00	0.00
7,600.0	5.00	38.60	7,592.6	134.5	107.4	-130.8	0.00	0.00	0.00
7,700.0	5.00	38.60	7,692.3	141.3	112.8	-137.5	0.00	0.00	0.00
7,800.0	5.00	38.60	7,791.9	148.1	118.3	-144.1	0.00	0.00	0.00
7,900.0	5.00	38.60	7,891.5	155.0	123.7	-150.7	0.00	0.00	0.00
8,000.0	5.00	38.60	7,991.1	161.8	129.2	-157.3	0.00	0.00	0.00
8,100.0	5.00	38.60	8,090.7	168.6	134.6	-164.0	0.00	0.00	0.00
8,200.0	5.00	38.60	8,190.4	175.4	140.0	-170.6	0.00	0.00	0.00
8,300.0	5.00	38.60	8,290.0	182.2	145.5	-177.2	0.00	0.00	0.00
8,400.0	5.00	38.60	8,389.6	189.0	150.9	-183.8	0.00	0.00	0.00
8,500.0	5.00	38.60	8,489.2	195.8	156.3	-190.5	0.00	0.00	0.00
8,600.0	5.00	38.60	8,588.8	202.6	161.8	-197.1	0.00	0.00	0.00
8,700.0	5.00	38.60	8,688.5	209.4	167.2	-203.7	0.00	0.00	0.00
8,719.0	5.00	38.60	8,707.4	210.7	168.3	-205.0	0.00	0.00	0.00
Start DLS 10.00 TFO 126.94									
8,800.0	6.47	127.62	8,788.1	210.7	174.1	-204.8	10.00	1.81	109.91
8,900.0	15.60	151.17	8,886.2	195.5	185.0	-189.1	10.00	9.13	23.55
9,000.0	25.38	157.19	8,979.8	163.8	199.9	-157.1	10.00	9.79	6.02
9,100.0	35.29	159.99	9,066.0	116.8	218.1	-109.5	10.00	9.90	2.80
9,200.0	45.23	161.68	9,142.2	55.8	239.2	-47.8	10.00	9.94	1.69
9,300.0	55.19	162.87	9,206.1	-17.3	262.5	26.1	10.00	9.96	1.19
9,400.0	65.15	163.80	9,255.8	-100.3	287.3	109.9	10.00	9.97	0.93
9,500.0	75.13	164.59	9,289.7	-190.7	312.9	201.1	10.00	9.97	0.79
9,600.0	85.10	165.31	9,306.9	-285.7	338.4	296.9	10.00	9.97	0.72
9,653.0	90.39	165.68	9,309.0	-337.0	351.7	348.6	10.00	9.98	0.70

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start DLS 2.00 TFO 89.94									
9,700.0	90.39	166.62	9,308.6	-382.6	362.9	394.5	2.00	0.00	2.00
9,800.0	90.39	168.62	9,308.0	-480.2	384.4	492.9	2.00	0.00	2.00
9,900.0	90.39	170.62	9,307.3	-578.6	402.4	591.8	2.00	0.00	2.00
10,000.0	90.39	172.62	9,306.6	-677.5	417.0	691.1	2.00	0.00	2.00
10,100.0	90.39	174.62	9,305.9	-776.9	428.1	790.8	2.00	0.00	2.00
10,200.0	90.39	176.62	9,305.2	-876.6	435.7	890.7	2.00	0.00	2.00
10,300.0	90.39	178.62	9,304.5	-976.5	439.9	990.7	2.00	0.00	2.00
10,356.8	90.39	179.76	9,304.1	-1,033.3	440.7	1,047.5	2.00	0.00	2.00
Start 13855.3 hold at 10356.8 MD									
10,400.0	90.39	179.76	9,303.8	-1,076.5	440.9	1,090.7	0.00	0.00	0.00
10,500.0	90.39	179.76	9,303.1	-1,176.5	441.3	1,190.6	0.00	0.00	0.00
10,600.0	90.39	179.76	9,302.5	-1,276.5	441.7	1,290.6	0.00	0.00	0.00
10,700.0	90.39	179.76	9,301.8	-1,376.5	442.1	1,390.5	0.00	0.00	0.00
10,800.0	90.39	179.76	9,301.1	-1,476.5	442.6	1,490.5	0.00	0.00	0.00
10,900.0	90.39	179.76	9,300.4	-1,576.5	443.0	1,590.4	0.00	0.00	0.00
11,000.0	90.39	179.76	9,299.7	-1,676.5	443.4	1,690.4	0.00	0.00	0.00
11,100.0	90.39	179.76	9,299.0	-1,776.5	443.8	1,790.3	0.00	0.00	0.00
11,200.0	90.39	179.76	9,298.3	-1,876.5	444.3	1,890.3	0.00	0.00	0.00
11,300.0	90.39	179.76	9,297.7	-1,976.5	444.7	1,990.3	0.00	0.00	0.00
11,400.0	90.39	179.76	9,297.0	-2,076.5	445.1	2,090.2	0.00	0.00	0.00
11,500.0	90.39	179.76	9,296.3	-2,176.5	445.5	2,190.2	0.00	0.00	0.00
11,600.0	90.39	179.76	9,295.6	-2,276.4	446.0	2,290.1	0.00	0.00	0.00
11,700.0	90.39	179.76	9,294.9	-2,376.4	446.4	2,390.1	0.00	0.00	0.00
11,800.0	90.39	179.76	9,294.2	-2,476.4	446.8	2,490.0	0.00	0.00	0.00
11,900.0	90.39	179.76	9,293.5	-2,576.4	447.2	2,590.0	0.00	0.00	0.00
12,000.0	90.39	179.76	9,292.8	-2,676.4	447.7	2,689.9	0.00	0.00	0.00
12,100.0	90.39	179.76	9,292.2	-2,776.4	448.1	2,789.9	0.00	0.00	0.00
12,200.0	90.39	179.76	9,291.5	-2,876.4	448.5	2,889.9	0.00	0.00	0.00
12,300.0	90.39	179.76	9,290.8	-2,976.4	448.9	2,989.8	0.00	0.00	0.00
12,400.0	90.39	179.76	9,290.1	-3,076.4	449.4	3,089.8	0.00	0.00	0.00
12,500.0	90.39	179.76	9,289.4	-3,176.4	449.8	3,189.7	0.00	0.00	0.00
12,600.0	90.39	179.76	9,288.7	-3,276.4	450.2	3,289.7	0.00	0.00	0.00
12,700.0	90.39	179.76	9,288.0	-3,376.4	450.6	3,389.6	0.00	0.00	0.00
12,800.0	90.39	179.76	9,287.4	-3,476.4	451.1	3,489.6	0.00	0.00	0.00
12,900.0	90.39	179.76	9,286.7	-3,576.4	451.5	3,589.5	0.00	0.00	0.00
13,000.0	90.39	179.76	9,286.0	-3,676.4	451.9	3,689.5	0.00	0.00	0.00
13,100.0	90.39	179.76	9,285.3	-3,776.4	452.3	3,789.4	0.00	0.00	0.00
13,200.0	90.39	179.76	9,284.6	-3,876.4	452.8	3,889.4	0.00	0.00	0.00
13,300.0	90.39	179.76	9,283.9	-3,976.4	453.2	3,989.4	0.00	0.00	0.00
13,400.0	90.39	179.76	9,283.2	-4,076.4	453.6	4,089.3	0.00	0.00	0.00
13,500.0	90.39	179.76	9,282.5	-4,176.4	454.0	4,189.3	0.00	0.00	0.00
13,600.0	90.39	179.76	9,281.9	-4,276.4	454.5	4,289.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,700.0	90.39	179.76	9,281.2	-4,376.4	454.9	4,389.2	0.00	0.00	0.00
13,800.0	90.39	179.76	9,280.5	-4,476.4	455.3	4,489.1	0.00	0.00	0.00
13,900.0	90.39	179.76	9,279.8	-4,576.4	455.7	4,589.1	0.00	0.00	0.00
14,000.0	90.39	179.76	9,279.1	-4,676.4	456.2	4,689.0	0.00	0.00	0.00
14,100.0	90.39	179.76	9,278.4	-4,776.4	456.6	4,789.0	0.00	0.00	0.00
14,200.0	90.39	179.76	9,277.7	-4,876.4	457.0	4,888.9	0.00	0.00	0.00
14,300.0	90.39	179.76	9,277.1	-4,976.4	457.4	4,988.9	0.00	0.00	0.00
14,400.0	90.39	179.76	9,276.4	-5,076.4	457.9	5,088.9	0.00	0.00	0.00
14,500.0	90.39	179.76	9,275.7	-5,176.4	458.3	5,188.8	0.00	0.00	0.00
14,600.0	90.39	179.76	9,275.0	-5,276.4	458.7	5,288.8	0.00	0.00	0.00
14,700.0	90.39	179.76	9,274.3	-5,376.3	459.1	5,388.7	0.00	0.00	0.00
14,800.0	90.39	179.76	9,273.6	-5,476.3	459.6	5,488.7	0.00	0.00	0.00
14,900.0	90.39	179.76	9,272.9	-5,576.3	460.0	5,588.6	0.00	0.00	0.00
15,000.0	90.39	179.76	9,272.3	-5,676.3	460.4	5,688.6	0.00	0.00	0.00
15,100.0	90.39	179.76	9,271.6	-5,776.3	460.8	5,788.5	0.00	0.00	0.00
15,200.0	90.39	179.76	9,270.9	-5,876.3	461.3	5,888.5	0.00	0.00	0.00
15,300.0	90.39	179.76	9,270.2	-5,976.3	461.7	5,988.4	0.00	0.00	0.00
15,400.0	90.39	179.76	9,269.5	-6,076.3	462.1	6,088.4	0.00	0.00	0.00
15,500.0	90.39	179.76	9,268.8	-6,176.3	462.5	6,188.4	0.00	0.00	0.00
15,600.0	90.39	179.76	9,268.1	-6,276.3	463.0	6,288.3	0.00	0.00	0.00
15,700.0	90.39	179.76	9,267.4	-6,376.3	463.4	6,388.3	0.00	0.00	0.00
15,800.0	90.39	179.76	9,266.8	-6,476.3	463.8	6,488.2	0.00	0.00	0.00
15,900.0	90.39	179.76	9,266.1	-6,576.3	464.2	6,588.2	0.00	0.00	0.00
16,000.0	90.39	179.76	9,265.4	-6,676.3	464.6	6,688.1	0.00	0.00	0.00
16,100.0	90.39	179.76	9,264.7	-6,776.3	465.1	6,788.1	0.00	0.00	0.00
16,200.0	90.39	179.76	9,264.0	-6,876.3	465.5	6,888.0	0.00	0.00	0.00
16,300.0	90.39	179.76	9,263.3	-6,976.3	465.9	6,988.0	0.00	0.00	0.00
16,400.0	90.39	179.76	9,262.6	-7,076.3	466.3	7,087.9	0.00	0.00	0.00
16,500.0	90.39	179.76	9,262.0	-7,176.3	466.8	7,187.9	0.00	0.00	0.00
16,600.0	90.39	179.76	9,261.3	-7,276.3	467.2	7,287.9	0.00	0.00	0.00
16,700.0	90.39	179.76	9,260.6	-7,376.3	467.6	7,387.8	0.00	0.00	0.00
16,800.0	90.39	179.76	9,259.9	-7,476.3	468.0	7,487.8	0.00	0.00	0.00
16,900.0	90.39	179.76	9,259.2	-7,576.3	468.5	7,587.7	0.00	0.00	0.00
17,000.0	90.39	179.76	9,258.5	-7,676.3	468.9	7,687.7	0.00	0.00	0.00
17,100.0	90.39	179.76	9,257.8	-7,776.3	469.3	7,787.6	0.00	0.00	0.00
17,200.0	90.39	179.76	9,257.1	-7,876.3	469.7	7,887.6	0.00	0.00	0.00
17,300.0	90.39	179.76	9,256.5	-7,976.3	470.2	7,987.5	0.00	0.00	0.00
17,400.0	90.39	179.76	9,255.8	-8,076.3	470.6	8,087.5	0.00	0.00	0.00
17,500.0	90.39	179.76	9,255.1	-8,176.3	471.0	8,187.5	0.00	0.00	0.00
17,600.0	90.39	179.76	9,254.4	-8,276.3	471.4	8,287.4	0.00	0.00	0.00
17,700.0	90.39	179.76	9,253.7	-8,376.2	471.9	8,387.4	0.00	0.00	0.00
17,800.0	90.39	179.76	9,253.0	-8,476.2	472.3	8,487.3	0.00	0.00	0.00
17,900.0	90.39	179.76	9,252.3	-8,576.2	472.7	8,587.3	0.00	0.00	0.00
18,000.0	90.39	179.76	9,251.7	-8,676.2	473.1	8,687.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,100.0	90.39	179.76	9,251.0	-8,776.2	473.6	8,787.2	0.00	0.00	0.00
18,200.0	90.39	179.76	9,250.3	-8,876.2	474.0	8,887.1	0.00	0.00	0.00
18,300.0	90.39	179.76	9,249.6	-8,976.2	474.4	8,987.1	0.00	0.00	0.00
18,400.0	90.39	179.76	9,248.9	-9,076.2	474.8	9,087.0	0.00	0.00	0.00
18,500.0	90.39	179.76	9,248.2	-9,176.2	475.3	9,187.0	0.00	0.00	0.00
18,600.0	90.39	179.76	9,247.5	-9,276.2	475.7	9,287.0	0.00	0.00	0.00
18,700.0	90.39	179.76	9,246.8	-9,376.2	476.1	9,386.9	0.00	0.00	0.00
18,800.0	90.39	179.76	9,246.2	-9,476.2	476.5	9,486.9	0.00	0.00	0.00
18,900.0	90.39	179.76	9,245.5	-9,576.2	477.0	9,586.8	0.00	0.00	0.00
19,000.0	90.39	179.76	9,244.8	-9,676.2	477.4	9,686.8	0.00	0.00	0.00
19,100.0	90.39	179.76	9,244.1	-9,776.2	477.8	9,786.7	0.00	0.00	0.00
19,200.0	90.39	179.76	9,243.4	-9,876.2	478.2	9,886.7	0.00	0.00	0.00
19,300.0	90.39	179.76	9,242.7	-9,976.2	478.7	9,986.6	0.00	0.00	0.00
19,400.0	90.39	179.76	9,242.0	-10,076.2	479.1	10,086.6	0.00	0.00	0.00
19,500.0	90.39	179.76	9,241.4	-10,176.2	479.5	10,186.5	0.00	0.00	0.00
19,600.0	90.39	179.76	9,240.7	-10,276.2	479.9	10,286.5	0.00	0.00	0.00
19,700.0	90.39	179.76	9,240.0	-10,376.2	480.4	10,386.5	0.00	0.00	0.00
19,800.0	90.39	179.76	9,239.3	-10,476.2	480.8	10,486.4	0.00	0.00	0.00
19,900.0	90.39	179.76	9,238.6	-10,576.2	481.2	10,586.4	0.00	0.00	0.00
20,000.0	90.39	179.76	9,237.9	-10,676.2	481.6	10,686.3	0.00	0.00	0.00
20,100.0	90.39	179.76	9,237.2	-10,776.2	482.1	10,786.3	0.00	0.00	0.00
20,200.0	90.39	179.76	9,236.5	-10,876.2	482.5	10,886.2	0.00	0.00	0.00
20,300.0	90.39	179.76	9,235.9	-10,976.2	482.9	10,986.2	0.00	0.00	0.00
20,400.0	90.39	179.76	9,235.2	-11,076.2	483.3	11,086.1	0.00	0.00	0.00
20,500.0	90.39	179.76	9,234.5	-11,176.2	483.8	11,186.1	0.00	0.00	0.00
20,600.0	90.39	179.76	9,233.8	-11,276.2	484.2	11,286.0	0.00	0.00	0.00
20,700.0	90.39	179.76	9,233.1	-11,376.2	484.6	11,386.0	0.00	0.00	0.00
20,800.0	90.39	179.76	9,232.4	-11,476.1	485.0	11,486.0	0.00	0.00	0.00
20,900.0	90.39	179.76	9,231.7	-11,576.1	485.5	11,585.9	0.00	0.00	0.00
21,000.0	90.39	179.76	9,231.1	-11,676.1	485.9	11,685.9	0.00	0.00	0.00
21,100.0	90.39	179.76	9,230.4	-11,776.1	486.3	11,785.8	0.00	0.00	0.00
21,200.0	90.39	179.76	9,229.7	-11,876.1	486.7	11,885.8	0.00	0.00	0.00
21,300.0	90.39	179.76	9,229.0	-11,976.1	487.2	11,985.7	0.00	0.00	0.00
21,400.0	90.39	179.76	9,228.3	-12,076.1	487.6	12,085.7	0.00	0.00	0.00
21,500.0	90.39	179.76	9,227.6	-12,176.1	488.0	12,185.6	0.00	0.00	0.00
21,600.0	90.39	179.76	9,226.9	-12,276.1	488.4	12,285.6	0.00	0.00	0.00
21,700.0	90.39	179.76	9,226.2	-12,376.1	488.9	12,385.6	0.00	0.00	0.00
21,800.0	90.39	179.76	9,225.6	-12,476.1	489.3	12,485.5	0.00	0.00	0.00
21,900.0	90.39	179.76	9,224.9	-12,576.1	489.7	12,585.5	0.00	0.00	0.00
22,000.0	90.39	179.76	9,224.2	-12,676.1	490.1	12,685.4	0.00	0.00	0.00
22,100.0	90.39	179.76	9,223.5	-12,776.1	490.6	12,785.4	0.00	0.00	0.00
22,200.0	90.39	179.76	9,222.8	-12,876.1	491.0	12,885.3	0.00	0.00	0.00
22,300.0	90.39	179.76	9,222.1	-12,976.1	491.4	12,985.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
22,400.0	90.39	179.76	9,221.4	-13,076.1	491.8	13,085.2	0.00	0.00	0.00
22,500.0	90.39	179.76	9,220.8	-13,176.1	492.3	13,185.2	0.00	0.00	0.00
22,600.0	90.39	179.76	9,220.1	-13,276.1	492.7	13,285.1	0.00	0.00	0.00
22,700.0	90.39	179.76	9,219.4	-13,376.1	493.1	13,385.1	0.00	0.00	0.00
22,800.0	90.39	179.76	9,218.7	-13,476.1	493.5	13,485.1	0.00	0.00	0.00
22,900.0	90.39	179.76	9,218.0	-13,576.1	494.0	13,585.0	0.00	0.00	0.00
23,000.0	90.39	179.76	9,217.3	-13,676.1	494.4	13,685.0	0.00	0.00	0.00
23,100.0	90.39	179.76	9,216.6	-13,776.1	494.8	13,784.9	0.00	0.00	0.00
23,200.0	90.39	179.76	9,215.9	-13,876.1	495.2	13,884.9	0.00	0.00	0.00
23,300.0	90.39	179.76	9,215.3	-13,976.1	495.7	13,984.8	0.00	0.00	0.00
23,400.0	90.39	179.76	9,214.6	-14,076.1	496.1	14,084.8	0.00	0.00	0.00
23,500.0	90.39	179.76	9,213.9	-14,176.1	496.5	14,184.7	0.00	0.00	0.00
23,600.0	90.39	179.76	9,213.2	-14,276.1	496.9	14,284.7	0.00	0.00	0.00
23,700.0	90.39	179.76	9,212.5	-14,376.1	497.4	14,384.6	0.00	0.00	0.00
23,800.0	90.39	179.76	9,211.8	-14,476.1	497.8	14,484.6	0.00	0.00	0.00
23,900.0	90.39	179.76	9,211.1	-14,576.0	498.2	14,584.6	0.00	0.00	0.00
24,000.0	90.39	179.76	9,210.5	-14,676.0	498.6	14,684.5	0.00	0.00	0.00
24,100.0	90.39	179.76	9,209.8	-14,776.0	499.1	14,784.5	0.00	0.00	0.00
24,200.0	90.39	179.76	9,209.1	-14,876.0	499.5	14,884.4	0.00	0.00	0.00
24,212.2	90.39	179.76	9,209.0	-14,888.2	499.5	14,896.6	0.00	0.00	0.00

TD at 24212.2

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
LTP (SCOUT ST COM	0.00	0.00	9,209.0	-14,758.2	498.9	408,694.07	562,659.97	32° 7' 24.437 N	104° 7' 51.346 W
- plan misses target center by 0.9usft at 24082.1usft MD (9209.9 TVD, -14758.2 N, 499.0 E)									
- Point									
PBHL (SCOUT ST CC	0.39	359.76	9,209.0	-14,888.2	499.5	408,564.04	562,660.64	32° 7' 23.150 N	104° 7' 51.341 W
- plan hits target center									
- Rectangle (sides W100.0 H15,433.0 D20.0)									
FTP (SCOUT ST COM	0.00	0.00	9,309.0	544.7	434.9	423,996.93	562,595.98	32° 9' 55.882 N	104° 7' 51.756 W
- plan misses target center by 537.7usft at 9100.0usft MD (9066.0 TVD, 116.8 N, 218.1 E)									
- Circle (radius 50.0)									

Concho Resources LLC
Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SCOUT ST COM #605H
Project:	EDDY COUNTY, NM	TVD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Site:	SCOUT ST COM PROJECT	MD Reference:	KB=30' @ 3094.0usft (SCAN QUEST)
Well:	SCOUT ST COM #605H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5750	5750	9	7	Start 2969.0 hold at 5750.0 MD
8719	8707	211	168	Start DLS 10.00 TFO 126.94
9653	9309	-337	352	Start DLS 2.00 TFO 89.94
10,357	9304	-1033	441	Start 13855.3 hold at 10356.8 MD
24,212	9209	-14,888	500	TD at 24212.2

Checked By: _____	Approved By: _____	Date: _____
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Intent ☒ As Drilled ☐

API #		
Operator Name: COG Operating LLC	Property Name: Scout State Com	Well Number 605H

Kick Off Point (KOP)

UL D	Section 6	Township 25S	Range 28E	Lot	Feet 875	From N/S FNL	Feet 796	From E/W FWL	County Eddy
Latitude 32.16414911					Longitude -104.13294502			NAD 83	

First Take Point (FTP)

UL D	Section 6	Township 25S	Range 28E	Lot	Feet 330	From N/S FNL	Feet 1232	From E/W FWL	County Eddy
Latitude 32.16564421					Longitude -104.13153636			NAD 83	

Last Take Point (LTP)

UL M	Section 18	Township 25S	Range 28E	Lot	Feet 330	From N/S FSL	Feet 1232	From E/W FWL	County Eddy
Latitude 32.12357664					Longitude -104.13142130			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐ YIs this well an infill well? ☐ N

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018