

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30 - 025-43839	⁵ Pool Name WC-025 G-09 S243532M; Wolfbone	⁶ Pool Code 98098
⁷ Property Code 315644	⁸ Property Name Stove Pipe Federal Com	⁹ Well Number 21H

II. ¹⁰ Surface Location

Ul or lot no. A	Section 6	Township 25S	Range 35E	Lot Idn 1	Feet from the 409	North/South Line North	Feet from the 476	East/West line East	County Lea
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¹¹ Bottom Hole Location

Ul or lot no. P	Section 7	Township 25S	Range 35E	Lot Idn	Feet from the 200	North/South Line South	Feet from the 365	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 2/2/18	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	Alpha Crude Connector Pipeline	O
24650	Targa Midstream Services, LP 1000 Louisiana - Ste 4700 Houston, TX 77002	G

IV. Well Completion Data

²¹ Spud Date 6/20/17	²² Ready Date 1/31/18	²³ TD 22905' <i>2749</i>	²⁴ PBDT 22790'	²⁵ Perforations 12944-22765'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	926'	725		
12 1/4"	9 5/8"	12135'	2325		
8 1/2"	5 1/2"	22888'	4325		
	2 7/8"	12399'			

V. Well Test Data

³¹ Date New Oil 2/1/18	³² Gas Delivery Date 2/2/18	³³ Test Date 2/2/18	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 3700#	³⁶ Csg. Pressure 2600#
³⁷ Choke Size 20/64"	³⁸ Oil 210	³⁹ Water 3899	⁴⁰ Gas 433		⁴¹ Test Method Flowing

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Stormi Davis

Title:
Regulatory Analyst

E-mail Address:
sdavis@concho.com

Date:
2/12/18

Phone:
575-748-6946

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

2-20-18

Pending BLM approvals will subsequently be reviewed and scanned

90P5-30-17

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM114997
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 2208 WEST MAIN ARTESIA, NM 88210		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 575-748-6946		8. Well Name and No. STOVE PIPE FEDERAL COM 21H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T25S R35E Mer NMP NENE 409FNL 476FEL		9. API Well No. 30-025-43839
		10. Field and Pool or Exploratory Area WILDCAT; WOLFBONE
		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	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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.

9/28/17 Set CBP @ 22790' and test csg to 11526# for 30 mins. Good test. Perf 22755-22765' (60).
Injection test.

12/4/17 to 1/8/18 Perf 12944-22691' (2860). Acdz w/235,824 gal 15%; frac w/23,629,280# sand & 27,199,287 gal fluid.

1/14/18 to 1/17/18 Drilled out CFP's. Clean down to CBP @ 22790'.

1/24/18 Set 2 7/8" 6.5# L-80 tbg @ 12399' & pkr @ 12383'. Installed gas-lift system.

1/31/18 Began flowing back & testing.

2/1/18 Date of first production.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #404122 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs	
Name (Printed/Typed) STORMI DAVIS	Title PREPARER
Signature (Electronic Submission)	Date 02/12/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE

Approved By _____	Title _____
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 _____

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 make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****Pending BLM approvals will
subsequently be reviewed
and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

FEB 14 2018

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM1149971a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLCContact: STORMI DAVIS
E-Mail: sdavis@concho.com8. Lease Name and Well No.
STOVE PIPE FEDERAL COM 21H3. Address 2208 WEST MAIN
ARTESIA, NM 882103a. Phone No. (include area code)
Ph: 575-748-69469. API Well No.
30-025-438394. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 6 T25S R35E Mer NMP
At surface NENE Lot 1 409FNL 476FEL10. Field and Pool, or Exploratory
WOLFBONE11. Sec., T., R., M., or Block and Survey
or Area Sec 6 T25S R35E Mer NMP

At top prod interval reported below

Sec 7 T25S R35E Mer NMP

At total depth SESE 200FSL 365FEL

12. County or Parish
LEA13. State
NM14. Date Spudded
06/20/201715. Date T.D. Reached
09/13/201716. Date Completed
☐ D & A ☒ Ready to Prod.
01/31/201817. Elevations (DF, KB, RT, GL)*
3295 GL18. Total Depth: MD 22905
TVD 1274219. Plug Back T.D.: MD 22790
TVD 1274220. Depth Bridge Plug Set: MD 22790
TVD 1274221. Type Electric & Other Mechanical Logs Run (Submit copy of each)
NONE22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 L80	68.0	0	926		725		0	
12.250	9.625 P110	47.0	0	12135	5213	2325		0	
8.500	5.500 P110	23.0	0	22888		4325		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	12399	12383						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	12944	22765	12944 TO 22691	0.430	2860	OPEN
B)			22755 TO 22765		60	OPEN
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
12944 TO 22691	SEE ATTACHED

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/01/2017	02/02/2018	24	→	210.0	433.0	3899.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	3700	2600.0	→	210	433	3899		POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Grav	
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Si	
			→						

Pending BLM approvals will
subsequently be reviewed
and scanned

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #404124 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
LAMAR	5428	5469		RUSTLER	828
BELL CANYON	5470	6433		TOS	1227
CHERRY CANYON	6434	8010		BOS	5104
BRUSHY CANYON	8011	9326		LAMAR	5428
BONE SPRING LM	9327	10516		BELL CANYON	5470
1ST BONE SPRING	10517	11059		CHERRY CANYON	6434
2ND BONE SPRING	11060	12090		BRUSHY CANYON	8011
3RD BONE SPRING	12091	12847		BONE SPRING LM	9327

32. Additional remarks (include plugging procedure):

Additional Tops:

1st Bone Spring: 10517'
2nd Bone Spring: 11060'
3rd Bone Spring: 12091'

Survey and Perfs/Stimulation are attached.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #404124 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Hobbs

Name (please print) STORMI DAVIS

Title PREPARER

Signature _____ (Electronic Submission)

Date 02/12/2018

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

STOVE PIPE FEDERAL COM #21H (30-025-43839)

<u>Perfs</u>	<u>15% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
1	3738	383671	418362
2	3024	382051	391020
3	2268	383214	402948
4	3024	383297	385602
5	3024	382192	392910
6	3024	380498	385056
7	4536	382015	454524
8	3024	383440	391230
9	3024	382859	376782
10	3024	382431	376572
11	3024	383191	567126
12	3024	382136	378420
13	3024	382560	420588
14	3024	383231	390432
15	3024	383441	387072
16	2262	382684	387088
17	3024	382036	399840
18	3024	382507	417228
19	2268	382009	460782
20	3024	383521	578844
21	3024	382015	705432
22	3024	383020	367202
23	3024	382373	463764
24	3024	383378	400344
25	2226	382273	400176
26	3234	382062	392322
27	3024	384940	385056
28	3024	381892	384678
29	2268	342948	367332
30	3024	381748	377244
31	3024	382201	378336
32	3024	382392	373968
33	3024	382120	376824
34	2940	384276	386190
35	2982	381946	390432
36	3024	382397	433944
37	3024	381805	387030
38	4032	381946	498204
39	3024	360795	377244
40	5586	215155	621978
41	7014	384242	455574
42	2184	76074	424956
43	2982	11133	325878
44	4494	382948	452672
45	3654	53150	402276

HOBBS OCD**FEB 14 2018****RECEIVED**

STOVE PIPE FEDERAL COM #21H (30-025-43839)

<u>Perfs</u>	<u>15% Acid (Gal)</u>	<u>Sand (#)</u>	<u>Fluid (Gal)</u>
46	6510	382912	474054
47	4494	382021	456708
48	6510	383475	467838
49	4494	382264	400470
50	4494	382253	422016
51	4494	383761	379806
52	4536	382910	415922
53	4494	382044	441126
54	4494	381988	389130
55	4494	382342	454104
56	4494	382034	391944
57	4494	382044	387114
58	4494	382183	378294
59	4494	380226	472836
60	4494	381726	384216
61	3024	382880	402360
62	4494	382140	408996
63	4494	382332	382872
64	4494	382082	385812
65	4494	383450	412188
Totals	235,824	23,629,280	27,199,287



30-025-43839

Concho Operating

Lea County, NM (Nad 27)

Stove Pipe Federal Com

Stove Pipe FC 21H

Stove Pipe FC 21H

Survey: Driltech MWD Tie to SDI Gyro

Survey Report - Geographic

14 September, 2017

Provide signature page for
directional survey



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well Stove Pipe FC 21H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Site:	Stove Pipe Federal Com	MD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Well:	Stove Pipe FC 21H	North Reference:	Grid
Wellbore:	Stove Pipe FC 21H	Survey Calculation Method:	Minimum Curvature
Design:	Stove Pipe FC 21H	Database:	EDM 5000.14 Single User Db

Project	Lea County, NM (Nad 27)		
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 Com			
Site Position:		Northing:	425,164.50 usft	Latitude: 32.165°N
From: Map		Easting:	789,052.00 usft	Longitude: 103.399°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.50 °

Well	Stove Pipe FC 21H			
Well Position	+N/-S	0.00 ft	Northing:	425,175.90 usft
	+E/-W	0.00 ft	Easting:	789,091.00 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
			Ground Level:	3,295.00 ft

Wellbore	Stove Pipe FC 21H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/8/2017	6.87	60.04	47,924.95633061

Design	Stove Pipe FC 21H			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	179.86

Survey Program	Date 9/14/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	12,037.00	Keeper Gyro Survey (Stove Pipe FC 21H)	Keeper	Keeper Standard Rate Gyro
12,158.00	22,905.00	Driitech MWD Tie to SDI Gyro (Stove Pipe FC 21H)	MWD	MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,037.00	1.44	352.18	12,029.92	325.31	165.55	425,501.21	789,256.55	32.166°N	103.399°W
12037'MD: Tie into SDI Gyro survey									
12,158.00	1.00	27.58	12,150.90	327.75	165.83	425,503.65	789,256.83	32.166°N	103.399°W
12158'MD: Begin DriiTech MWD									
12,190.00	1.06	34.77	12,182.89	328.25	166.13	425,504.14	789,257.13	32.166°N	103.399°W
12,284.00	1.28	50.11	12,276.87	329.63	167.43	425,505.53	789,258.43	32.166°N	103.399°W
12,331.00	1.58	77.01	12,323.86	330.11	168.46	425,506.01	789,259.46	32.166°N	103.399°W
12,379.00	2.40	143.07	12,371.83	329.46	169.71	425,505.36	789,260.71	32.166°N	103.399°W
12,426.00	10.58	182.32	12,418.51	324.35	170.13	425,500.25	789,261.13	32.166°N	103.399°W
12,473.00	17.54	182.57	12,464.07	312.95	169.64	425,488.85	789,260.63	32.166°N	103.399°W
12,520.00	25.35	184.36	12,507.78	295.82	168.55	425,471.72	789,259.55	32.166°N	103.399°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well Stove Pipe FC 21H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Site:	Stove Pipe Federal Com	MD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Well:	Stove Pipe FC 21H	North Reference:	Grid
Wellbore:	Stove Pipe FC 21H	Survey Calculation Method:	Minimum Curvature
Design:	Stove Pipe FC 21H	Database:	EDM 5000.14 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,568.00	31.43	184.91	12,549.99	273.08	166.70	425,448.98	789,257.70	32.166°N	103.399°W
12,615.00	37.11	180.87	12,588.82	246.67	165.43	425,422.57	789,256.43	32.166°N	103.399°W
12,661.00	41.69	177.94	12,624.36	217.49	165.77	425,393.39	789,256.77	32.166°N	103.399°W
12,708.00	44.23	181.71	12,658.76	185.47	165.85	425,361.37	789,256.84	32.166°N	103.399°W
12,755.00	49.26	184.87	12,690.96	151.32	163.84	425,327.22	789,254.84	32.166°N	103.399°W
12,802.00	55.22	185.83	12,719.73	114.34	160.37	425,290.24	789,251.37	32.166°N	103.399°W
12,836.57	59.46	185.98	12,738.38	85.40	157.37	425,261.30	789,248.37	32.166°N	103.399°W
12837' MD: Hardline Crossing FNL									
12,850.00	61.11	186.03	12,745.03	73.80	156.15	425,249.70	789,247.15	32.166°N	103.399°W
12,897.00	67.64	186.66	12,765.35	31.71	151.47	425,207.61	789,242.46	32.166°N	103.399°W
12,944.00	74.04	185.65	12,780.77	-12.41	146.72	425,163.49	789,237.71	32.165°N	103.399°W
12,991.00	80.24	182.99	12,791.23	-58.08	143.28	425,117.82	789,234.28	32.165°N	103.399°W
13,039.00	87.84	181.43	12,796.21	-105.74	141.45	425,070.16	789,232.44	32.165°N	103.399°W
13,066.00	91.24	180.63	12,796.42	-132.73	140.96	425,043.17	789,231.96	32.165°N	103.399°W
13,132.00	91.06	180.78	12,795.10	-198.72	140.15	424,977.18	789,231.15	32.165°N	103.399°W
13,227.00	90.66	180.01	12,793.67	-293.70	139.49	424,882.20	789,230.49	32.165°N	103.399°W
13,322.00	90.57	179.68	12,792.65	-388.70	139.75	424,787.20	789,230.75	32.164°N	103.399°W
13,417.00	92.18	178.57	12,790.37	-483.65	141.20	424,692.25	789,232.20	32.164°N	103.399°W
13,511.00	90.34	177.14	12,788.31	-577.56	144.72	424,598.34	789,235.72	32.164°N	103.399°W
13,609.00	90.50	177.32	12,787.59	-675.44	149.45	424,500.46	789,240.45	32.164°N	103.399°W
13,704.00	87.65	177.94	12,789.12	-770.34	153.38	424,405.56	789,244.38	32.163°N	103.399°W
13,798.00	88.89	179.34	12,791.96	-864.26	155.61	424,311.64	789,246.61	32.163°N	103.399°W
13,893.00	88.75	179.57	12,793.92	-959.24	156.51	424,216.66	789,247.51	32.163°N	103.399°W
13,987.00	89.25	180.38	12,795.56	-1,053.22	156.56	424,122.68	789,247.55	32.163°N	103.399°W
14,081.00	88.86	179.71	12,797.11	-1,147.21	156.48	424,028.69	789,247.48	32.162°N	103.399°W
14,176.00	88.87	179.85	12,798.99	-1,242.19	156.85	423,933.71	789,247.84	32.162°N	103.399°W
14,268.00	87.39	181.14	12,801.99	-1,334.13	156.05	423,841.77	789,247.05	32.162°N	103.399°W
14,362.00	88.42	183.11	12,805.43	-1,428.00	152.57	423,747.90	789,243.57	32.162°N	103.399°W
14,456.00	88.17	181.79	12,808.22	-1,521.87	148.55	423,654.03	789,239.55	32.161°N	103.399°W
14,551.00	85.81	181.11	12,813.21	-1,616.70	146.15	423,559.20	789,237.15	32.161°N	103.399°W
14,645.00	88.58	182.15	12,817.81	-1,710.54	143.48	423,465.36	789,234.48	32.161°N	103.399°W
14,739.00	87.50	181.88	12,821.03	-1,804.43	140.18	423,371.48	789,231.17	32.161°N	103.399°W
14,834.00	86.84	181.49	12,825.72	-1,899.27	137.39	423,276.63	789,228.38	32.160°N	103.399°W
14,927.00	88.33	180.41	12,829.64	-1,992.17	135.85	423,183.73	789,226.84	32.160°N	103.399°W
15,021.00	87.58	180.80	12,832.99	-2,086.10	134.86	423,089.80	789,225.85	32.160°N	103.399°W
15,116.00	88.02	180.50	12,836.64	-2,181.03	133.78	422,994.88	789,224.78	32.159°N	103.399°W
15,210.00	89.02	180.47	12,839.07	-2,274.99	132.98	422,900.91	789,223.98	32.159°N	103.399°W
15,304.00	88.94	179.86	12,840.74	-2,368.98	132.71	422,806.93	789,223.71	32.159°N	103.399°W
15,398.00	90.36	179.77	12,841.31	-2,462.97	133.02	422,712.93	789,224.01	32.159°N	103.399°W
15,492.00	88.58	179.34	12,842.18	-2,556.96	133.75	422,618.94	789,224.74	32.158°N	103.399°W
15,586.00	91.74	179.28	12,841.92	-2,650.94	134.88	422,524.96	789,225.88	32.158°N	103.399°W
15,681.00	91.70	180.33	12,839.07	-2,745.90	135.20	422,430.01	789,226.20	32.158°N	103.399°W
15,775.00	90.92	181.06	12,836.92	-2,839.86	134.06	422,336.04	789,225.06	32.158°N	103.399°W
15,870.00	91.37	182.17	12,835.02	-2,934.81	131.38	422,241.10	789,222.38	32.157°N	103.399°W
15,964.00	90.39	181.30	12,833.58	-3,028.75	128.54	422,147.16	789,219.54	32.157°N	103.399°W
16,058.00	89.00	180.27	12,834.08	-3,122.74	127.25	422,053.17	789,218.25	32.157°N	103.399°W
16,152.00	89.08	179.33	12,835.65	-3,216.72	127.58	421,959.19	789,218.58	32.157°N	103.399°W
16,247.00	88.48	179.52	12,837.68	-3,311.69	128.53	421,864.21	789,219.53	32.156°N	103.399°W
16,341.00	90.31	179.66	12,838.67	-3,405.68	129.20	421,770.22	789,220.20	32.156°N	103.399°W
16,435.00	91.29	182.82	12,837.35	-3,499.64	127.17	421,676.27	789,218.17	32.156°N	103.399°W
16,530.00	90.64	180.22	12,835.75	-3,594.58	124.65	421,581.32	789,215.65	32.156°N	103.399°W
16,624.00	90.36	177.67	12,834.93	-3,688.55	126.38	421,487.35	789,217.38	32.155°N	103.399°W
16,718.00	90.64	176.17	12,834.11	-3,782.41	131.43	421,393.49	789,222.43	32.155°N	103.399°W
16,813.00	90.09	175.14	12,833.51	-3,877.14	138.63	421,298.77	789,229.63	32.155°N	103.399°W
16,907.00	90.22	176.49	12,833.25	-3,970.88	145.49	421,205.02	789,236.49	32.155°N	103.399°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well Stove Pipe FC 21H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Site:	Stove Pipe Federal Com	MD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Well:	Stove Pipe FC 21H	North Reference:	Grid
Wellbore:	Stove Pipe FC 21H	Survey Calculation Method:	Minimum Curvature
Design:	Stove Pipe FC 21H	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,001.00	89.67	176.83	12,833.34	-4,064.72	150.97	421,111.18	789,241.96	32.154°N	103.399°W
17,095.00	89.12	177.03	12,834.34	-4,158.58	156.00	421,017.33	789,247.00	32.154°N	103.399°W
17,189.00	90.97	179.27	12,834.26	-4,252.52	159.03	420,923.38	789,250.03	32.154°N	103.399°W
17,283.00	87.65	176.79	12,835.40	-4,346.44	162.26	420,829.47	789,253.26	32.154°N	103.399°W
17,401.00	86.45	178.98	12,841.47	-4,464.19	166.61	420,711.71	789,257.61	32.153°N	103.399°W
17,495.00	89.33	180.62	12,844.93	-4,558.12	166.94	420,617.79	789,257.94	32.153°N	103.399°W
17,590.00	90.49	181.31	12,845.08	-4,653.10	165.34	420,522.81	789,256.34	32.153°N	103.399°W
17,684.00	89.74	179.25	12,844.89	-4,747.09	164.88	420,428.82	789,255.88	32.152°N	103.399°W
17,778.00	90.24	181.74	12,844.91	-4,841.08	164.07	420,334.83	789,255.07	32.152°N	103.399°W
17,873.00	90.76	181.62	12,844.08	-4,936.04	161.28	420,239.87	789,252.28	32.152°N	103.399°W
17,967.00	91.79	182.23	12,841.99	-5,029.96	158.13	420,145.95	789,249.13	32.152°N	103.399°W
18,062.00	92.08	181.91	12,838.78	-5,124.84	154.70	420,051.07	789,245.70	32.151°N	103.399°W
18,156.00	91.41	182.22	12,835.92	-5,218.74	151.31	419,957.17	789,242.31	32.151°N	103.399°W
18,251.00	89.24	180.44	12,835.38	-5,313.70	149.11	419,862.21	789,240.11	32.151°N	103.399°W
18,345.00	88.25	179.92	12,837.44	-5,407.68	148.81	419,768.23	789,239.81	32.151°N	103.399°W
18,440.00	89.64	181.49	12,839.18	-5,502.65	147.64	419,673.26	789,238.64	32.150°N	103.399°W
18,535.00	92.31	185.23	12,837.57	-5,597.45	142.08	419,578.46	789,233.08	32.150°N	103.399°W
18,630.00	89.01	183.64	12,836.47	-5,692.14	134.74	419,483.77	789,225.73	32.150°N	103.399°W
18,724.00	88.31	181.07	12,838.67	-5,786.03	130.87	419,389.89	789,221.87	32.150°N	103.399°W
18,819.00	87.78	180.40	12,841.91	-5,880.96	129.66	419,294.95	789,220.65	32.149°N	103.399°W
18,914.00	87.82	178.41	12,845.56	-5,975.88	130.64	419,200.03	789,221.64	32.149°N	103.399°W
19,008.00	89.86	177.10	12,847.46	-6,069.78	134.32	419,106.13	789,225.32	32.149°N	103.399°W
19,103.00	93.90	177.27	12,844.35	-6,164.60	138.99	419,011.31	789,229.98	32.149°N	103.399°W
19,198.00	94.61	177.69	12,837.30	-6,259.24	143.15	418,916.67	789,234.15	32.148°N	103.399°W
19,293.00	93.41	178.07	12,830.66	-6,353.94	146.66	418,821.97	789,237.65	32.148°N	103.399°W
19,388.00	93.62	178.23	12,824.83	-6,448.72	149.72	418,727.20	789,240.71	32.148°N	103.399°W
19,482.00	93.52	178.17	12,818.98	-6,542.49	152.66	418,633.43	789,243.66	32.147°N	103.399°W
19,577.00	92.91	178.98	12,813.65	-6,637.31	155.02	418,538.61	789,246.02	32.147°N	103.399°W
19,672.00	92.27	178.65	12,809.36	-6,732.19	156.99	418,443.72	789,247.98	32.147°N	103.399°W
19,767.00	92.54	178.95	12,805.37	-6,827.08	158.97	418,348.83	789,249.97	32.147°N	103.399°W
19,861.00	91.30	179.11	12,802.22	-6,921.02	160.56	418,254.90	789,251.56	32.146°N	103.399°W
19,955.00	91.34	178.76	12,800.06	-7,014.98	162.31	418,160.94	789,253.31	32.146°N	103.399°W
20,050.00	90.22	178.27	12,798.76	-7,109.93	164.77	418,065.98	789,255.77	32.146°N	103.399°W
20,145.00	89.75	178.38	12,798.79	-7,204.89	167.55	417,971.02	789,258.55	32.146°N	103.399°W
20,240.00	90.71	178.98	12,798.41	-7,299.86	169.74	417,876.05	789,260.73	32.145°N	103.399°W
20,333.00	92.18	179.41	12,796.06	-7,392.82	171.04	417,783.09	789,262.04	32.145°N	103.399°W
20,428.00	91.89	178.78	12,792.69	-7,487.75	172.54	417,688.16	789,263.54	32.145°N	103.399°W
20,523.00	90.64	177.76	12,790.59	-7,582.68	175.41	417,593.23	789,266.41	32.145°N	103.399°W
20,616.00	90.32	176.19	12,789.81	-7,675.55	180.32	417,500.37	789,271.32	32.144°N	103.399°W
20,711.00	91.11	176.14	12,788.63	-7,770.32	186.67	417,405.59	789,277.67	32.144°N	103.399°W
20,806.00	91.61	177.59	12,786.37	-7,865.15	191.87	417,310.76	789,282.86	32.144°N	103.399°W
20,898.00	93.29	178.84	12,782.44	-7,957.02	194.73	417,218.90	789,285.73	32.144°N	103.399°W
20,993.00	92.33	179.08	12,777.78	-8,051.89	196.45	417,124.03	789,287.45	32.143°N	103.399°W
21,086.00	93.13	179.47	12,773.35	-8,144.77	197.63	417,031.14	789,288.62	32.143°N	103.399°W
21,181.00	92.27	180.25	12,768.88	-8,239.67	197.86	416,936.25	789,288.86	32.143°N	103.399°W
21,276.00	92.96	180.99	12,764.54	-8,334.56	196.83	416,841.36	789,287.83	32.143°N	103.399°W
21,371.00	91.01	179.90	12,761.25	-8,429.49	196.09	416,746.42	789,287.09	32.142°N	103.399°W
21,465.00	91.04	178.46	12,759.57	-8,523.47	197.44	416,652.45	789,288.44	32.142°N	103.399°W
21,560.00	91.04	177.30	12,757.85	-8,618.39	200.95	416,557.53	789,291.95	32.142°N	103.399°W
21,660.00	90.44	176.31	12,756.55	-8,718.22	206.53	416,457.70	789,297.52	32.142°N	103.399°W
21,754.00	91.14	177.72	12,755.26	-8,812.08	211.42	416,363.84	789,302.42	32.141°N	103.399°W
21,849.00	91.50	179.84	12,753.07	-8,907.03	213.44	416,268.89	789,304.44	32.141°N	103.399°W
21,944.00	91.85	179.69	12,750.29	-9,001.99	213.83	416,173.93	789,304.83	32.141°N	103.399°W
22,038.00	91.67	181.90	12,747.40	-9,095.93	212.53	416,079.99	789,303.53	32.140°N	103.399°W
22,133.00	90.44	182.49	12,745.66	-9,190.84	208.89	415,985.08	789,299.89	32.140°N	103.399°W



Survey Report - Geographic

Company:	Concho Operating	Local Co-ordinate Reference:	Well Stove Pipe FC 21H
Project:	Lea County, NM (Nad 27)	TVD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Site:	Stove Pipe Federal Com	MD Reference:	3295' + 28' KBE @ 3323.00ft (Noram 23)
Well:	Stove Pipe FC 21H	North Reference:	Grid
Wellbore:	Stove Pipe FC 21H	Survey Calculation Method:	Minimum Curvature
Design:	Stove Pipe FC 21H	Database:	EDM 5000.14 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
22,228.00	90.26	183.77	12,745.08	-9,285.69	203.70	415,890.22	789,294.70	32.140°N	103.399°W
22,322.00	90.09	182.57	12,744.79	-9,379.55	198.51	415,796.37	789,289.50	32.140°N	103.399°W
22,417.00	89.91	180.64	12,744.79	-9,474.51	195.85	415,701.41	789,286.84	32.139°N	103.399°W
22,512.00	90.79	182.59	12,744.21	-9,569.46	193.17	415,606.46	789,284.17	32.139°N	103.399°W
22,606.00	90.09	181.15	12,743.49	-9,663.41	190.10	415,512.51	789,281.10	32.139°N	103.399°W
22,700.00	90.62	181.74	12,742.90	-9,757.37	187.73	415,418.55	789,278.73	32.139°N	103.399°W
22,781.26	90.01	181.26	12,742.45	-9,838.60	185.60	415,337.32	789,276.60	32.138°N	103.399°W
22781'MD: Hardline Crossing FSL									
22,795.00	89.91	181.18	12,742.46	-9,852.34	185.31	415,323.58	789,276.31	32.138°N	103.399°W
22,852.00	90.09	181.55	12,742.46	-9,909.32	183.95	415,266.60	789,274.95	32.138°N	103.399°W
22852'MD: Final MWD Survey Depth									
22,905.00	90.09	181.55	12,742.38	-9,962.30	182.52	415,213.62	789,273.52	32.138°N	103.399°W
22905'MD: Projection to Total Depth									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,037.00	12,029.92	325.31	165.55	12037'MD: Tie into SDI Gyro survey
12,158.00	12,150.90	327.75	165.83	12158'MD: Begin DrilTech MWD
12,836.57	12,738.38	85.40	157.37	12837'MD: Hardline Crossing FNL
22,781.26	12,742.45	-9,838.60	185.60	22781'MD: Hardline Crossing FSL
22,852.00	12,742.46	-9,909.32	183.95	22852'MD: Final MWD Survey Depth
22,905.00	12,742.38	-9,962.30	182.52	22905'MD: Projection to Total Depth

Checked By: _____ Approved By: _____ Date: _____

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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
(As Drilled)

HOBBS OCD
FEB 14 2018
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-43839		² Pool Code 98098	³ Pool Name WC-025 G-09 S243532M; Wolfbone
⁴ Property Code 315644	⁵ Property Name Stove Pipe Federal Com		⁶ Well Number 21H
⁷ OGRID No. 229137	⁸ Operator Name COG Operating LLC		⁹ Elevation 3295' GR

¹⁰ Surface Location

UL or lot no. A	Section 6	Township 25S	Range 35E	Lot Idn 1	Feet from the 409	North/South line North	Feet from the 476	East/West line East	County Lea
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 7	Township 25S	Range 35E	Lot Idn	Feet from the 200	North/South line South	Feet from the 365	East/West line East	County Lea
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¹² Dedicated Acres 320.35	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.

16	Lot 4	Lot 3	Lot 2	Lot 1	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. <i>Stormi Davis</i> 2/7/18 Signature Date Stormi Davis Printed Name sdavis@concho.com E-mail Address
	Sec 6-T25S-R35E				
	Sec 7-T25S-R35E				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: REFER TO ORIGINAL PLAT _____ Certificate Number

Producing Area 12944-22765'

SHL 409' 476'

BHL 200' 365'