District I
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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 278893

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

1. Operator Name and Address	2. OGRID Number
CONOCOPHILLIPS COMPANY P.O.Box 2197 Houston, TX 77252	217817
	3. API Number 30-025-46955

4. Property Code	5. Property Name	6. Well No.
327229	CAPROCK YESO AREA CYA W	100H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	7	17S	33E	K	2302	S	2462	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	8	17S	33E	I	2273	S	47	E	Lea

9. Pool Information

WC-025 G-03 S173318N;YESO	97727

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	4229
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	14344	Yeso Formation		5/1/2020
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	1360	790	0
Int1	12.25	9.625	40	2742	290	0
Prod	8.75	7	35	14344	2300	0

Casing/Cement Program: Additional Comments

The production string is a 7" and 5.5" with a cross-over joint. The 7" casing weight is 35 lbs/ft and the 5.5" casing is 20 lbs/ft.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Cameron
Double Ram	5000	5000	Cameron
Pipe	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.

Signature:

OIL CONSERVATION DIVISION

Printed Name:	Electronically filed by Susan B Maunder	Approved By:	Paul F Kautz	
Title:	Sr. Regulatory Coordinator	Title:	Geologist	
Email Address:	Susan.B.Maunder@conocophillips.com	Approved Date:	3/10/2020	Expiration Date: 3/10/2022
Date:	3/3/2020 Phone: 432-688-6913	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	[2] Pool Code	[3] Pool Name
30-025-46955	97727	WC-025 G-03 S173318N;YESO

[4] Property Code	[5] Property Name	[6] Well Number
327229	CAPROCK YESO AREA CYA W	100H

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	ConocoPhillips Company	4229.3'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	7	17S	33E		2302	SOUTH	2462	WEST	LEA

[11] 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
I	8	17S	33E		2273	SOUTH	47	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
240			

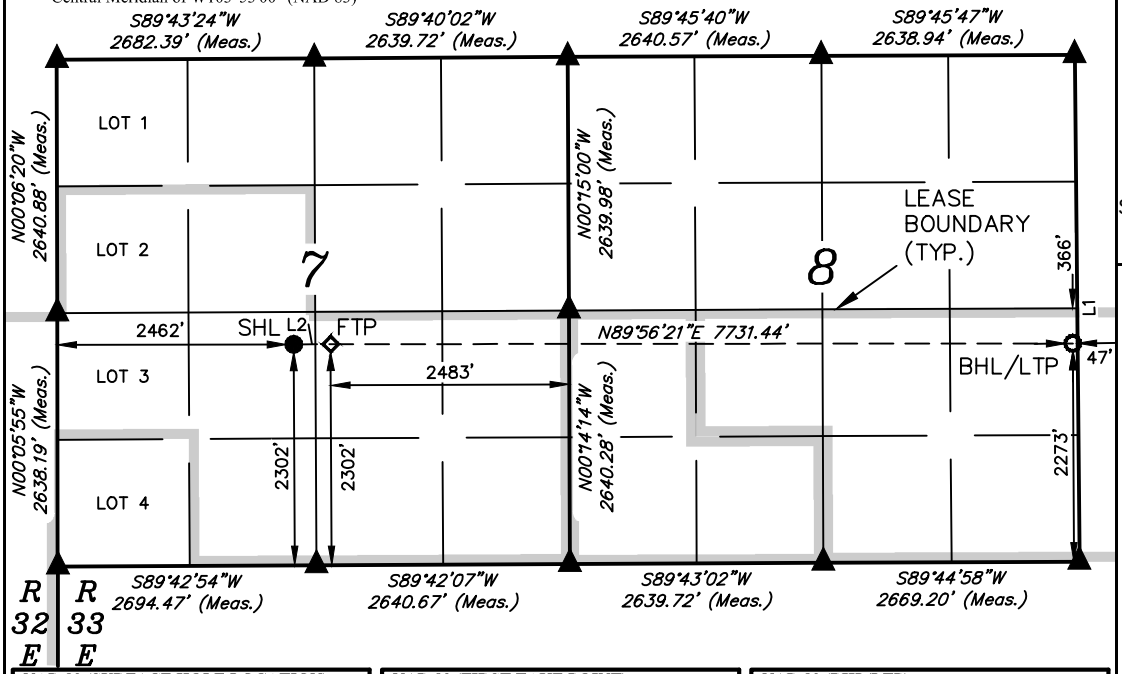
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]
● = SURFACE HOLE LOCATION
○ = BHL/LTP
◇ = FIRST TAKE POINT
▲ = SECTION CORNER LOCATED

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°33'46"W	5277.69'
L2	N89°40'56"E	384.88'

2000' 1000' 0' 2000'
SCALE
REV: 4 02-25-20 T.A.
(UPDATE WELL BORE & ADD LEASE BOUNDRY)



NAD 83 (SURFACE HOLE LOCATION)	NAD 83 (FIRST TAKE POINT)	NAD 83 (BHL/LTP)
LATITUDE = N32°50'53.30" (32.848140°)	LATITUDE = N32°50'53.32" (32.848144°)	LATITUDE = N32°50'53.26" (32.848127°)
LONGITUDE = W103°42'11.83" (-103.703285°)	LONGITUDE = W103°42'07.32" (-103.702032°)	LONGITUDE = W103°40'36.70" (-103.676862°)
NAD 27 (SURFACE HOLE LOCATION)	**NAD 27 (FIRST TAKE POINT)**	**NAD 27 (BHL/LTP)**
LATITUDE = N32°50'52.87" (32.848020°)	LATITUDE = N32°50'52.89" (32.848024°)	LATITUDE = N32°50'52.83" (32.848007°)
LONGITUDE = W103°42'10.01" (-103.702781°)	LONGITUDE = W103°42'05.50" (-103.701528°)	LONGITUDE = W103°40'34.89" (-103.676359°)
STATE PLANE NAD 83 (N.M. EAST)	**STATE PLANE NAD 83 (N.M. EAST)**	**STATE PLANE NAD 83 (N.M. EAST)**
N: 672863.53' E: 734827.34'	N: 672867.30' E: 735212.13'	N: 672908.43' E: 742942.06'
STATE PLANE NAD 27 (N.M. EAST)	**STATE PLANE NAD 27 (N.M. EAST)**	**STATE PLANE NAD 27 (N.M. EAST)**
N: 672798.84' E: 693649.10'	N: 672802.60' E: 694033.90'	N: 672843.62' E: 701763.80'

[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.

Susan B. Maunder 2/28/2020
Signature Date

Susan B. Maunder
Printed Name

Susan.B.Maunder@conocophillips.com
E-mail Address

[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.

December 18, 2019
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

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

GAS CAPTURE PLAN

Date: 3/10/2020

☒ Original

☐ Amended - Reason for Amendment:

Operator & OGRID No.: [217817] CONOCOPHILLIPS COMPANY

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
CAPROCK YESO AREA CYA W #100H	30-025-46955	K-7-17S-33E	2302S 2462W	700	None	Intermittent flaring may be necessary during facility and well start-up of production.

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 DCP OPERATING COMPANY, LP and will be connected to DCP OPERATING COMPANY, LP Low Pressure gathering system located in Lea County, New Mexico. It will require 1800' of pipeline to connect the facility to Low Pressure gathering system. CONOCOPHILLIPS COMPANY provides (periodically) to DCP OPERATING COMPANY, LP a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CONOCOPHILLIPS COMPANY and DCP OPERATING COMPANY, LP have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at DCP OPERATING COMPANY, LP Processing Plant located in Sec. 06, Twn. 19S, Rng. 37E, Lea 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 DCP OPERATING COMPANY, LP system at that time. Based on current information, it is CONOCOPHILLIPS COMPANY'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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 278893

PERMIT COMMENTS

Operator Name and Address:	API Number:
CONOCOPHILLIPS COMPANY [217817] P.O.Box 2197 Houston, TX 77252	30-025-46955
	Well: CAPROCK YESO AREA CYA W #100H

Created By	Comment	Comment Date

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

Form APD Conditions

Permit 278893

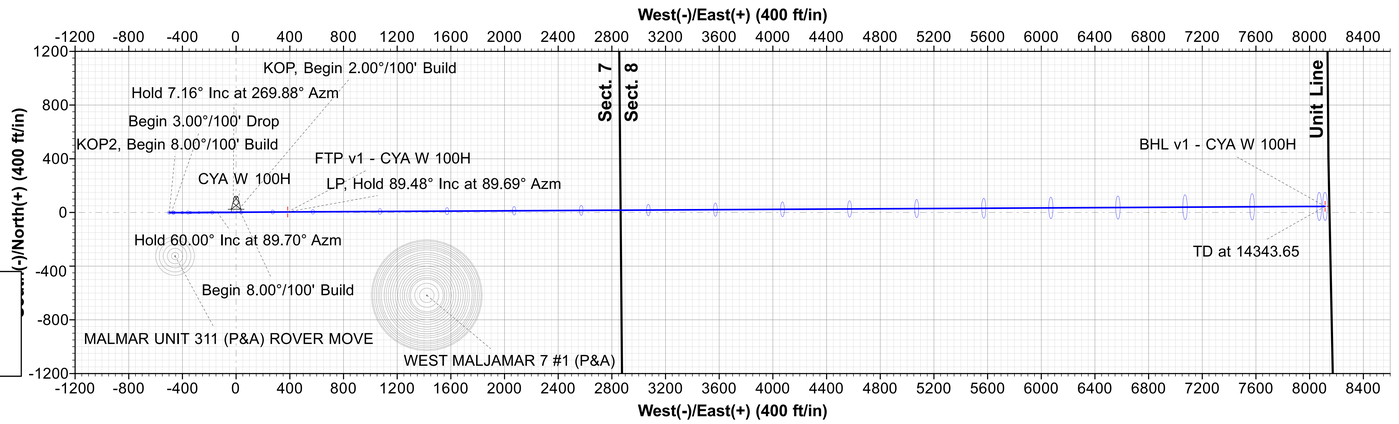
PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CONOCOPHILLIPS COMPANY [217817] P.O.Box 2197 Houston, TX 77252	30-025-46955
	Well: CAPROCK YESO AREA CYA W #100H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

ConocoPhillips

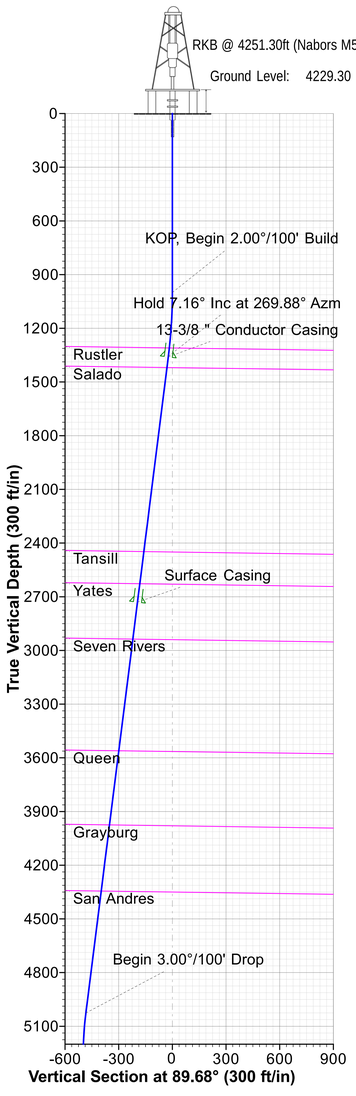
Project: Planning - NM East State Zone - 3001
Site: Caprock CYA W 100H
Well: CYA W 100H
Wellbore: OH
Design: Plan 3 02-27-20
Rig: Nabors M51



WELL DETAILS

Ground Level: Ground Level: 4229.30

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	672798.895	693649.155	32° 50' 52.872 N	103° 42' 10.012 W

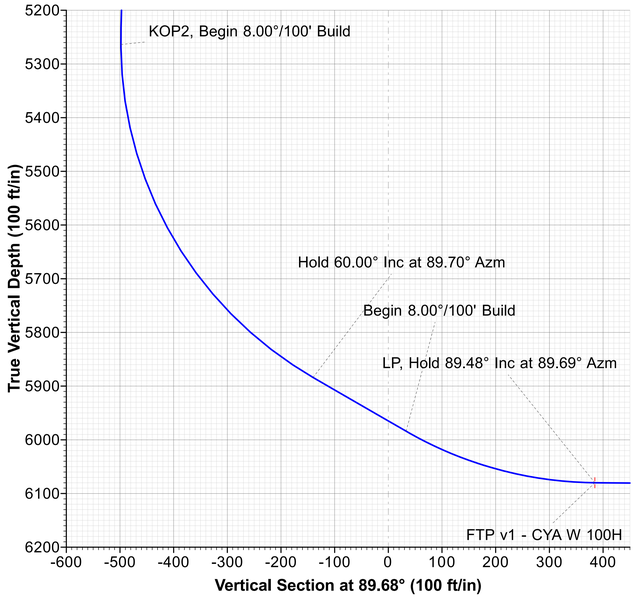


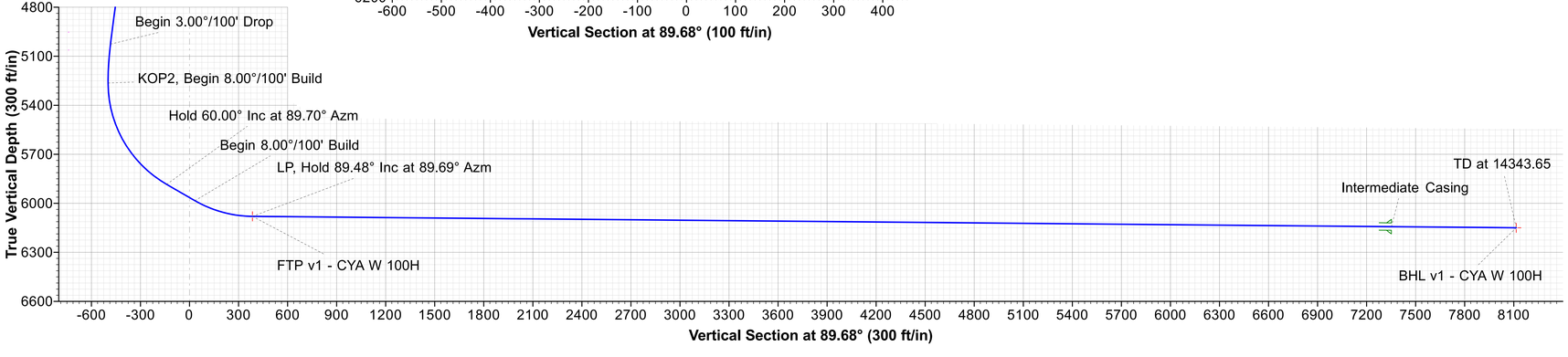
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP v1 - CYA W 100H	6080.00	3.71	384.76	672802.600	694033.900	32° 50' 52.886 N	103° 42' 5.502 W
BHL v1 - CYA W 100H	6150.00	45.22	8115.25	672844.108	701764.000	32° 50' 52.830 N	103° 40' 34.890 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00		KOP, Begin 2.00°/100' Build
3	1358.03	7.16	269.88	1357.10	-0.05	-22.34	2.00	269.88	-22.34		Hold 7.16° Inc at 269.88° Azm
4	5055.53	7.16	269.88	5025.76	-1.03	-483.24	0.00	0.00	-483.24		Begin 3.00°/100' Drop
5	5294.22	0.00	0.00	5263.83	-1.06	-498.14	3.00	180.00	-498.14		KOP2, Begin 8.00°/100' Build
6	6044.22	60.00	89.69	5884.08	0.87	-140.05	8.00	0.00	-140.04		Hold 60.00° Inc at 89.70° Azm
7	6244.22	60.00	89.69	5984.08	1.81	33.16	0.00	0.00	33.17		Begin 8.00°/100' Build
8	6612.74	89.48	89.69	6080.00	3.71	384.76	8.00	0.00	384.78	FTP v1 - CYA W 100H	LP, Hold 89.48° Inc at 89.69° Azm
9	14343.65	89.48	89.69	6150.00	45.22	8115.25	0.00	0.00	8115.38	BHL v1 - CYA W 100H	TD at 14343.65





Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Local Origin: Well CYA W 100H, Grid North

Latitude: 32° 50' 52.872 N
Longitude: 103° 42' 10.012 W

Grid East: 693649.155
Grid North: 672798.895
Scale Factor: 1.000

Geomagnetic Model: BGGM2018
Sample Date: 20-Apr-20
Magnetic Declination: 6.80°
Dip Angle from Horizontal: 60.53°
Magnetic Field Strength: 48044.58991666nT

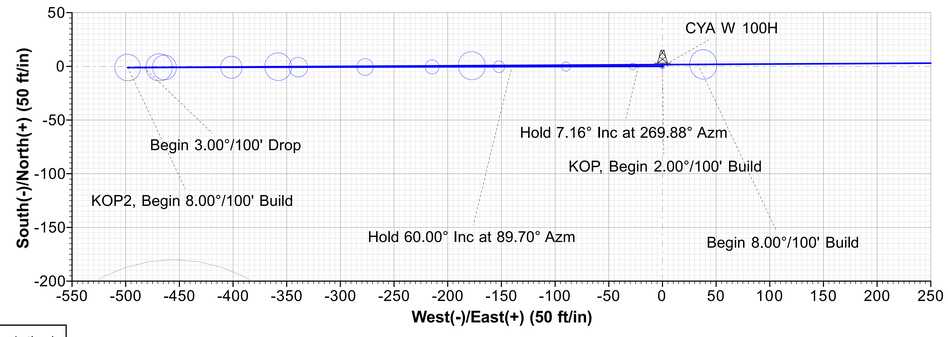
To convert a Magnetic Direction to a Grid Direction, Add 6.46°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 0.34°

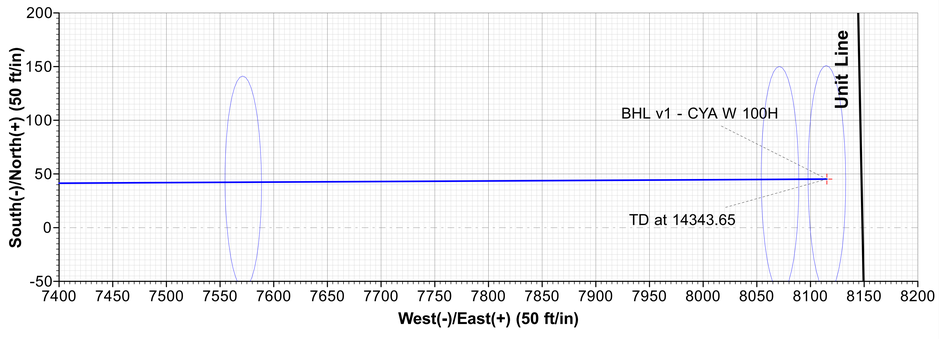
LEGEND

MALMAR UNIT 311 (P&A) ROVER MOVE, MALMAR UNIT 311, MALMAR UNIT 311 V0
WEST MALJAMAR 7 #1 (P&A), WEST MALJAMAR 7 #1, WEST MALJAMAR 7 #1 V0
Plan 3 02-27-20

Azimuths to Grid North
True North: -0.34°
Magnetic North: 6.46°

Magnetic Field
Strength: 48044.6snT
Dip Angle: 60.53°
Date: 4/20/2020
Model: BGGM2018





Date: 13:50, February 28 2020

ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001
Caprock CYA W 100H
CYA W 100H

OH

Plan: Plan 3 02-27-20

Standard Planning Report

28 February, 2020

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Project	Planning - NM East State Zone - 3001, Permian Basin - New Mexico - East/South East, Planning Project for Permian wells in NM Zone 3001		
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		Using geodetic scale factor

Site	Caprock CYA W 100H				
Site Position:		**Northing:**	672,798.895 usft	**Latitude:**	32° 50' 52.872 N
From:	Lat/Long	**Easting:**	693,649.155 usft	**Longitude:**	103° 42' 10.012 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.34 °

Well	CYA W 100H					
Well Position	**+N/-S**	0.00 ft	**Northing:**	672,798.895 usft	**Latitude:**	32° 50' 52.872 N
	+E/-W	0.00 ft	**Easting:**	693,649.155 usft	**Longitude:**	103° 42' 10.012 W
Position Uncertainty		1.00 ft	**Wellhead Elevation:**	4,217.00 ft	**Ground Level:**	4,229.30 ft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2018	4/20/2020	6.80	60.53	48,044.58991666

Design	Plan 3 02-27-20			
Audit Notes:				
Version:	**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	89.68

Plan Survey Tool Program **Date** 2/28/2020

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,343.65	Plan 3 02-27-20 (OH)	MWD+IFR1+MS_CoP	
				Fixed:v2:Eagleford, crustal dec	

ConocoPhillips
Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,358.03	7.16	269.88	1,357.10	-0.05	-22.34	2.00	2.00	0.00	269.88	
5,055.53	7.16	269.88	5,025.76	-1.03	-483.24	0.00	0.00	0.00	0.00	
5,294.22	0.00	0.00	5,263.83	-1.06	-498.14	3.00	-3.00	0.00	180.00	
6,044.22	60.00	89.69	5,884.08	0.87	-140.05	8.00	8.00	0.00	0.00	
6,244.22	60.00	89.69	5,984.08	1.81	33.16	0.00	0.00	0.00	0.00	
6,612.74	89.48	89.69	6,080.00	3.71	384.76	8.00	8.00	0.00	0.00	FTP v1 - CYA W 100H
14,343.65	89.48	89.69	6,150.00	45.22	8,115.25	0.00	0.00	0.00	0.00	BHL v1 - CYA W 100H

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,100.00	2.00	269.88	1,099.98	0.00	-1.75	-1.75	2.00	2.00	0.00
1,200.00	4.00	269.88	1,199.84	-0.01	-6.98	-6.98	2.00	2.00	0.00
1,300.00	6.00	269.88	1,299.45	-0.03	-15.69	-15.69	2.00	2.00	0.00
1,310.37	6.21	269.88	1,309.76	-0.04	-16.80	-16.80	2.00	2.00	0.00
Rustler									
1,358.03	7.16	269.88	1,357.10	-0.05	-22.34	-22.34	2.00	2.00	0.00
Hold 7.16° Inc at 269.88° Azm									
1,400.00	7.16	269.88	1,398.74	-0.06	-27.58	-27.57	0.00	0.00	0.00
1,421.00	7.16	269.88	1,419.57	-0.06	-30.19	-30.19	0.00	0.00	0.00
Salado									
1,500.00	7.16	269.88	1,497.96	-0.09	-40.04	-40.04	0.00	0.00	0.00
1,600.00	7.16	269.88	1,597.18	-0.11	-52.51	-52.51	0.00	0.00	0.00
1,700.00	7.16	269.88	1,696.40	-0.14	-64.97	-64.97	0.00	0.00	0.00
1,800.00	7.16	269.88	1,795.62	-0.17	-77.44	-77.44	0.00	0.00	0.00
1,900.00	7.16	269.88	1,894.84	-0.19	-89.90	-89.90	0.00	0.00	0.00
2,000.00	7.16	269.88	1,994.06	-0.22	-102.37	-102.37	0.00	0.00	0.00
2,100.00	7.16	269.88	2,093.28	-0.25	-114.83	-114.83	0.00	0.00	0.00
2,200.00	7.16	269.88	2,192.50	-0.27	-127.30	-127.30	0.00	0.00	0.00
2,300.00	7.16	269.88	2,291.72	-0.30	-139.76	-139.76	0.00	0.00	0.00
2,400.00	7.16	269.88	2,390.94	-0.33	-152.23	-152.23	0.00	0.00	0.00
2,457.25	7.16	269.88	2,447.75	-0.34	-159.36	-159.36	0.00	0.00	0.00
Tansill									
2,500.00	7.16	269.88	2,490.16	-0.35	-164.69	-164.69	0.00	0.00	0.00
2,600.00	7.16	269.88	2,589.38	-0.38	-177.16	-177.16	0.00	0.00	0.00
2,638.34	7.16	269.88	2,627.43	-0.39	-181.94	-181.94	0.00	0.00	0.00
Yates									
2,700.00	7.16	269.88	2,688.60	-0.40	-189.62	-189.62	0.00	0.00	0.00
2,800.00	7.16	269.88	2,787.82	-0.43	-202.09	-202.09	0.00	0.00	0.00
2,900.00	7.16	269.88	2,887.04	-0.46	-214.55	-214.55	0.00	0.00	0.00
2,950.23	7.16	269.88	2,936.88	-0.47	-220.81	-220.81	0.00	0.00	0.00
Seven Rivers									
3,000.00	7.16	269.88	2,986.26	-0.48	-227.02	-227.02	0.00	0.00	0.00
3,100.00	7.16	269.88	3,085.48	-0.51	-239.48	-239.48	0.00	0.00	0.00
3,200.00	7.16	269.88	3,184.70	-0.54	-251.95	-251.95	0.00	0.00	0.00
3,300.00	7.16	269.88	3,283.92	-0.56	-264.41	-264.41	0.00	0.00	0.00
3,400.00	7.16	269.88	3,383.14	-0.59	-276.88	-276.88	0.00	0.00	0.00
3,500.00	7.16	269.88	3,482.36	-0.62	-289.34	-289.34	0.00	0.00	0.00
3,579.02	7.16	269.88	3,560.77	-0.64	-299.19	-299.19	0.00	0.00	0.00
Queen									
3,600.00	7.16	269.88	3,581.58	-0.64	-301.81	-301.81	0.00	0.00	0.00
3,700.00	7.16	269.88	3,680.80	-0.67	-314.27	-314.27	0.00	0.00	0.00
3,800.00	7.16	269.88	3,780.02	-0.70	-326.74	-326.74	0.00	0.00	0.00
3,900.00	7.16	269.88	3,879.24	-0.72	-339.20	-339.20	0.00	0.00	0.00
3,996.54	7.16	269.88	3,975.03	-0.75	-351.24	-351.24	0.00	0.00	0.00
Grayburg									
4,000.00	7.16	269.88	3,978.46	-0.75	-351.67	-351.67	0.00	0.00	0.00
4,100.00	7.16	269.88	4,077.68	-0.78	-364.13	-364.13	0.00	0.00	0.00
4,200.00	7.16	269.88	4,176.90	-0.80	-376.60	-376.60	0.00	0.00	0.00
4,300.00	7.16	269.88	4,276.12	-0.83	-389.07	-389.06	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,368.79	7.16	269.88	4,344.38	-0.85	-397.64	-397.64	0.00	0.00	0.00
San Andres									
4,400.00	7.16	269.88	4,375.34	-0.86	-401.53	-401.53	0.00	0.00	0.00
4,500.00	7.16	269.88	4,474.56	-0.88	-414.00	-413.99	0.00	0.00	0.00
4,600.00	7.16	269.88	4,573.78	-0.91	-426.46	-426.46	0.00	0.00	0.00
4,700.00	7.16	269.88	4,673.00	-0.94	-438.93	-438.92	0.00	0.00	0.00
4,800.00	7.16	269.88	4,772.22	-0.96	-451.39	-451.39	0.00	0.00	0.00
4,900.00	7.16	269.88	4,871.44	-0.99	-463.86	-463.85	0.00	0.00	0.00
5,000.00	7.16	269.88	4,970.66	-1.02	-476.32	-476.32	0.00	0.00	0.00
5,055.53	7.16	269.88	5,025.76	-1.03	-483.24	-483.24	0.00	0.00	0.00
Begin 3.00°/100' Drop									
5,100.00	5.83	269.88	5,069.94	-1.04	-488.27	-488.27	3.00	-3.00	0.00
5,200.00	2.83	269.88	5,169.65	-1.06	-495.82	-495.81	3.00	-3.00	0.00
5,294.22	0.00	269.88	5,263.83	-1.06	-498.14	-498.14	3.00	-3.00	0.00
KOP2, Begin 8.00°/100' Build									
5,300.00	0.46	89.69	5,269.61	-1.06	-498.12	-498.11	8.00	7.99	3,110.94
5,400.00	8.46	89.69	5,369.23	-1.02	-490.34	-490.34	8.00	8.00	0.00
5,500.00	16.46	89.69	5,466.79	-0.91	-468.78	-468.78	8.00	8.00	0.00
5,600.00	24.46	89.69	5,560.40	-0.72	-433.85	-433.85	8.00	8.00	0.00
5,700.00	32.46	89.69	5,648.25	-0.46	-386.23	-386.23	8.00	8.00	0.00
5,800.00	40.46	89.69	5,728.61	-0.14	-326.85	-326.85	8.00	8.00	0.00
5,894.58	48.03	89.69	5,796.31	0.22	-260.91	-260.90	8.00	8.00	0.00
Glorieta									
5,900.00	48.46	89.69	5,799.92	0.24	-256.87	-256.86	8.00	8.00	0.00
6,000.00	56.46	89.69	5,860.80	0.67	-177.64	-177.63	8.00	8.00	0.00
6,044.22	60.00	89.69	5,884.08	0.87	-140.05	-140.04	8.00	8.00	0.00
Hold 60.00° Inc at 89.70° Azm									
6,093.31	60.00	89.69	5,908.62	1.10	-97.54	-97.53	0.00	0.00	0.00
Paddock									
6,100.00	60.00	89.69	5,911.97	1.13	-91.74	-91.74	0.00	0.00	0.00
6,200.00	60.00	89.69	5,961.97	1.60	-5.14	-5.13	0.00	0.00	0.00
6,244.22	60.00	89.69	5,984.08	1.81	33.15	33.16	0.00	0.00	0.00
Begin 8.00°/100' Build									
6,300.00	64.46	89.69	6,010.06	2.08	82.50	82.51	8.00	8.00	0.00
6,400.00	72.46	89.69	6,046.74	2.58	175.44	175.45	8.00	8.00	0.00
6,500.00	80.46	89.69	6,070.13	3.11	272.58	272.59	8.00	8.00	0.00
6,600.00	88.46	89.69	6,079.77	3.64	372.03	372.04	8.00	8.00	0.00
6,612.74	89.48	89.69	6,080.00	3.71	384.77	384.78	8.00	8.00	0.02
LP, Hold 89.48° Inc at 89.69° Azm									
6,700.00	89.48	89.69	6,080.79	4.17	472.02	472.04	0.00	0.00	0.00
6,800.00	89.48	89.69	6,081.70	4.71	572.02	572.03	0.00	0.00	0.00
6,900.00	89.48	89.69	6,082.60	5.25	672.01	672.03	0.00	0.00	0.00
7,000.00	89.48	89.69	6,083.51	5.78	772.01	772.03	0.00	0.00	0.00
7,100.00	89.48	89.69	6,084.41	6.32	872.00	872.02	0.00	0.00	0.00
7,200.00	89.48	89.69	6,085.32	6.86	971.99	972.02	0.00	0.00	0.00
7,300.00	89.48	89.69	6,086.22	7.40	1,071.99	1,072.01	0.00	0.00	0.00
7,400.00	89.48	89.69	6,087.13	7.93	1,171.98	1,172.01	0.00	0.00	0.00
7,500.00	89.48	89.69	6,088.03	8.47	1,271.98	1,272.00	0.00	0.00	0.00
7,600.00	89.48	89.69	6,088.94	9.01	1,371.97	1,372.00	0.00	0.00	0.00
7,700.00	89.48	89.69	6,089.84	9.54	1,471.97	1,472.00	0.00	0.00	0.00
7,800.00	89.48	89.69	6,090.75	10.08	1,571.96	1,571.99	0.00	0.00	0.00
7,900.00	89.48	89.69	6,091.66	10.62	1,671.96	1,671.99	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,000.00	89.48	89.69	6,092.56	11.15	1,771.95	1,771.98	0.00	0.00	0.00
8,100.00	89.48	89.69	6,093.47	11.69	1,871.94	1,871.98	0.00	0.00	0.00
8,200.00	89.48	89.69	6,094.37	12.23	1,971.94	1,971.98	0.00	0.00	0.00
8,300.00	89.48	89.69	6,095.28	12.76	2,071.93	2,071.97	0.00	0.00	0.00
8,400.00	89.48	89.69	6,096.18	13.30	2,171.93	2,171.97	0.00	0.00	0.00
8,500.00	89.48	89.69	6,097.09	13.84	2,271.92	2,271.96	0.00	0.00	0.00
8,600.00	89.48	89.69	6,097.99	14.38	2,371.92	2,371.96	0.00	0.00	0.00
8,700.00	89.48	89.69	6,098.90	14.91	2,471.91	2,471.96	0.00	0.00	0.00
8,800.00	89.48	89.69	6,099.80	15.45	2,571.91	2,571.95	0.00	0.00	0.00
8,900.00	89.48	89.69	6,100.71	15.99	2,671.90	2,671.95	0.00	0.00	0.00
9,000.00	89.48	89.69	6,101.62	16.52	2,771.89	2,771.94	0.00	0.00	0.00
9,100.00	89.48	89.69	6,102.52	17.06	2,871.89	2,871.94	0.00	0.00	0.00
9,200.00	89.48	89.69	6,103.43	17.60	2,971.88	2,971.94	0.00	0.00	0.00
9,300.00	89.48	89.69	6,104.33	18.13	3,071.88	3,071.93	0.00	0.00	0.00
9,400.00	89.48	89.69	6,105.24	18.67	3,171.87	3,171.93	0.00	0.00	0.00
9,500.00	89.48	89.69	6,106.14	19.21	3,271.87	3,271.92	0.00	0.00	0.00
9,600.00	89.48	89.69	6,107.05	19.74	3,371.86	3,371.92	0.00	0.00	0.00
9,700.00	89.48	89.69	6,107.95	20.28	3,471.86	3,471.91	0.00	0.00	0.00
9,800.00	89.48	89.69	6,108.86	20.82	3,571.85	3,571.91	0.00	0.00	0.00
9,900.00	89.48	89.69	6,109.76	21.36	3,671.84	3,671.91	0.00	0.00	0.00
10,000.00	89.48	89.69	6,110.67	21.89	3,771.84	3,771.90	0.00	0.00	0.00
10,100.00	89.48	89.69	6,111.58	22.43	3,871.83	3,871.90	0.00	0.00	0.00
10,200.00	89.48	89.69	6,112.48	22.97	3,971.83	3,971.89	0.00	0.00	0.00
10,300.00	89.48	89.69	6,113.39	23.50	4,071.82	4,071.89	0.00	0.00	0.00
10,400.00	89.48	89.69	6,114.29	24.04	4,171.82	4,171.89	0.00	0.00	0.00
10,500.00	89.48	89.69	6,115.20	24.58	4,271.81	4,271.88	0.00	0.00	0.00
10,600.00	89.48	89.69	6,116.10	25.11	4,371.81	4,371.88	0.00	0.00	0.00
10,700.00	89.48	89.69	6,117.01	25.65	4,471.80	4,471.87	0.00	0.00	0.00
10,800.00	89.48	89.69	6,117.91	26.19	4,571.79	4,571.87	0.00	0.00	0.00
10,900.00	89.48	89.69	6,118.82	26.73	4,671.79	4,671.87	0.00	0.00	0.00
11,000.00	89.48	89.69	6,119.72	27.26	4,771.78	4,771.86	0.00	0.00	0.00
11,100.00	89.48	89.69	6,120.63	27.80	4,871.78	4,871.86	0.00	0.00	0.00
11,200.00	89.48	89.69	6,121.54	28.34	4,971.77	4,971.85	0.00	0.00	0.00
11,300.00	89.48	89.69	6,122.44	28.87	5,071.77	5,071.85	0.00	0.00	0.00
11,400.00	89.48	89.69	6,123.35	29.41	5,171.76	5,171.85	0.00	0.00	0.00
11,500.00	89.48	89.69	6,124.25	29.95	5,271.76	5,271.84	0.00	0.00	0.00
11,600.00	89.48	89.69	6,125.16	30.48	5,371.75	5,371.84	0.00	0.00	0.00
11,700.00	89.48	89.69	6,126.06	31.02	5,471.74	5,471.83	0.00	0.00	0.00
11,800.00	89.48	89.69	6,126.97	31.56	5,571.74	5,571.83	0.00	0.00	0.00
11,900.00	89.48	89.69	6,127.87	32.09	5,671.73	5,671.82	0.00	0.00	0.00
12,000.00	89.48	89.69	6,128.78	32.63	5,771.73	5,771.82	0.00	0.00	0.00
12,100.00	89.48	89.69	6,129.68	33.17	5,871.72	5,871.82	0.00	0.00	0.00
12,200.00	89.48	89.69	6,130.59	33.71	5,971.72	5,971.81	0.00	0.00	0.00
12,300.00	89.48	89.69	6,131.50	34.24	6,071.71	6,071.81	0.00	0.00	0.00
12,400.00	89.48	89.69	6,132.40	34.78	6,171.71	6,171.80	0.00	0.00	0.00
12,500.00	89.48	89.69	6,133.31	35.32	6,271.70	6,271.80	0.00	0.00	0.00
12,600.00	89.48	89.69	6,134.21	35.85	6,371.70	6,371.80	0.00	0.00	0.00
12,700.00	89.48	89.69	6,135.12	36.39	6,471.69	6,471.79	0.00	0.00	0.00
12,800.00	89.48	89.69	6,136.02	36.93	6,571.68	6,571.79	0.00	0.00	0.00
12,900.00	89.48	89.69	6,136.93	37.46	6,671.68	6,671.78	0.00	0.00	0.00
13,000.00	89.48	89.69	6,137.83	38.00	6,771.67	6,771.78	0.00	0.00	0.00
13,100.00	89.48	89.69	6,138.74	38.54	6,871.67	6,871.78	0.00	0.00	0.00
13,200.00	89.48	89.69	6,139.64	39.07	6,971.66	6,971.77	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
13,300.00	89.48	89.69	6,140.55	39.61	7,071.66	7,071.77	0.00	0.00	0.00
13,400.00	89.48	89.69	6,141.46	40.15	7,171.65	7,171.76	0.00	0.00	0.00
13,500.00	89.48	89.69	6,142.36	40.69	7,271.65	7,271.76	0.00	0.00	0.00
13,600.00	89.48	89.69	6,143.27	41.22	7,371.64	7,371.75	0.00	0.00	0.00
13,700.00	89.48	89.69	6,144.17	41.76	7,471.63	7,471.75	0.00	0.00	0.00
13,800.00	89.48	89.69	6,145.08	42.30	7,571.63	7,571.75	0.00	0.00	0.00
13,900.00	89.48	89.69	6,145.98	42.83	7,671.62	7,671.74	0.00	0.00	0.00
14,000.00	89.48	89.69	6,146.89	43.37	7,771.62	7,771.74	0.00	0.00	0.00
14,100.00	89.48	89.69	6,147.79	43.91	7,871.61	7,871.73	0.00	0.00	0.00
14,200.00	89.48	89.69	6,148.70	44.44	7,971.61	7,971.73	0.00	0.00	0.00
14,300.00	89.48	89.69	6,149.60	44.98	8,071.60	8,071.73	0.00	0.00	0.00
14,343.65	89.48	89.69	6,150.00	45.22	8,115.25	8,115.37	0.00	0.00	0.00
TD at 14343.65									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP v1 - CYA W 100H - plan misses target center by 0.01ft at 6612.74ft MD (6080.00 TVD, 3.71 N, 384.76 E) - Point	0.00	0.00	6,080.00	3.71	384.76	672,802.600	694,033.900	32° 50' 52.886 N	103° 42' 5.502 W
BHL v1 - CYA W 100H - plan hits target center - Point	0.00	0.01	6,150.00	45.22	8,115.25	672,844.108	701,764.000	32° 50' 52.830 N	103° 40' 34.890 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,360.95	1,360.00	13-3/8 " Conductor Casing	13-3/8	17-1/2
2,741.72	2,730.00	Surface Casing	9-5/8	12-1/4
13,580.00	6,143.09	Intermediate Casing	5-1/2	8-3/4

ConocoPhillips
Planning Report

Database:	EDT 14 Central Planning	**Local Co-ordinate Reference:**	Well CYA W 100H
Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	**TVD Reference:**	RKB @ 4251.30ft (Nabors M51)
Project:	Planning - NM East State Zone - 3001	**MD Reference:**	RKB @ 4251.30ft (Nabors M51)
Site:	Caprock CYA W 100H	**North Reference:**	Grid
Well:	CYA W 100H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 02-27-20		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,310.37	1,309.76	Rustler		0.81	89.47
1,421.00	1,419.57	Salado		0.81	89.47
2,457.25	2,447.75	Tansill		0.81	89.47
2,638.34	2,627.43	Yates		0.81	89.47
2,950.23	2,936.88	Seven Rivers		0.81	89.47
3,579.02	3,560.77	Queen		0.81	89.47
3,996.54	3,975.03	Grayburg		0.81	89.47
4,368.79	4,344.38	San Andres		0.81	89.47
5,894.58	5,796.31	Glorieta		0.81	89.47
6,093.31	5,908.62	Paddock		0.81	89.47

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP, Begin 2.00°/100' Build
1,358.03	1,357.10	-0.05	-22.34	Hold 7.16° Inc at 269.88° Azm
5,055.53	5,025.76	-1.03	-483.24	Begin 3.00°/100' Drop
5,294.22	5,263.83	-1.06	-498.14	KOP2, Begin 8.00°/100' Build
6,044.22	5,884.08	0.87	-140.05	Hold 60.00° Inc at 89.70° Azm
6,244.22	5,984.08	1.81	33.15	Begin 8.00°/100' Build
6,612.74	6,080.00	3.71	384.77	LP, Hold 89.48° Inc at 89.69° Azm
14,343.65	6,150.00	45.22	8,115.25	TD at 14343.65

ConocoPhillips

H_2S Contingency Plan

April 2018

H_2S Contingency Plan Holders:

Attached is an H_2S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any question regarding this plan, please call Matt Oster (830) 583-1297, or Ryan Vacarella (985) 217-7594.

Table of Contents

Section

ConocoPhillips

HYDROGEN SULFIDE (H_2S) OPERATIONS

Contingency Plan
For
Permian Drilling Operations

ConocoPhillips Company
Mid-Continent Business Unit
Permian Asset Area

I. PURPOSE

The purpose of this Contingency Plan is to provide an organized plan of action for alerting and protecting the public following the release of a potentially hazardous volume of hydrogen sulfide. This plan prescribes mandatory safety procedures to be followed in the event of a release of H_2S into the atmosphere from exploration and production operations included in the scope of this plan. The extent of action taken will be determined by the supervisor and will depend on the severity and extent of H_2S release. Release of H_2S must be reported to the Drilling Superintendent and documented on the IADC and in Wellview.

II. SCOPE

This Contingency plan shall cover the West Texas and Southeastern New Mexico areas, which contain H2S gas and could result in a release where the R.O.E. is greater than 100 ppm at 50' and less than 3000' and does not include a public area and 500 ppm R.O.E. does not include a public road. Radius of exposure is defined as the maximum distance from the source of release that a specified calculated average concentration of H_2S could exist under specific weather conditions.

III. PROCEDURES

First Employee on Scene

____ Assess the incident and ensure your own safety.

Note the following:

____ Location of the incident.
____ Nature of the incident.
____ Wind direction and weather conditions.
____ Other assistance that may be needed.

____ Call local supervisory personnel (refer to Section V: Emergency Call List) until personal contact is made with a person on the list.

____ Perform emergency assessment and response as needed. The response may include rescue and/or evacuation of personnel, shutting in a system and/or notification of nearby residents/public (refer to Section VII: Public Notification/Evacuation).

____ Secure the site.

____ Follow the direction of the On-scene Incident Commander (first ConocoPhillips supervisor arriving on-scene).

First Supervisor on Scene (ConocoPhillips On-scene Incident Commander)

____ Becomes ConocoPhillips' On-scene Incident Commander upon arrival to location.

____ Follow the principles of the **D.E.C.I.D.E.** process below to assess the incident. (Note wind direction and weather conditions and ensure everyone's safety).

DETECT the problem
ESTIMATE likely harm without intervention
CHOOSE response objectives
IDENTIFY action options
DO the best option
EVALUATE the progress

____ Complete the Preliminary Emergency Information Sheet (refer to Section VIII: Forms/Reports).

____ Call your supervisor (refer to Section V: Emergency Call List).

____ Perform emergency response as necessary. (This may include notification & evacuation of all personnel and/or nearby residents/public (refer to Section VII: Public Notification/Evacuation), requesting assistance from ConocoPhillips personnel or outside agencies (refer to Section V: Emergency Call List) and obtaining any safety equipment that may be required (refer to Section IV: Emergency Equipment and Maintenance).

____ Notify appropriate local emergency response agencies of the incident as needed. Also notify the appropriate regulatory agencies. (refer to Section V: Emergency Call List).

____ Ensure site security.

__ Set barricades and /or warning signs at or beyond the calculated 100 ppm H_2S radius of exposure (ROE). All manned barricades must be equipped with an H_2S monitor and a 2-way radio.

__ Set roadblocks and staging area as determined.

____ Establish the Incident Command Structure by designating appropriate on-scene response personnel as follows:

Recording Secretary _____
Public Information Officer _____
Safety/Medical Officer _____
Decontamination Officer _____

____ Have the “Recording Secretary” begin documenting the incident on the “Incident Log” (refer to Section VIII: Forms/Reports).

____ If needed, request radio silence on all channels that use your radio tower stating that, until further notice, the channels should be used for emergency communications only.

____ Perform a Site Characterization and designate the following:

Hot Zone -- Hazardous Area
Warm Zone -- Preparation & Decontamination Area
Cold Zone -- Safe Area

AND

On-Scene Incident Command Post	(Cold Zone)
Public Relations Briefing Area	(Cold Zone)
Staging Area	(Cold Zone)
Triage Area	(Cold Zone)
Decontamination Area	(Warm Zone)

____ Refer all media personnel to ConocoPhillips' On-Scene Public Information Officer (refer to Section VI: Public Media Relations).

____ Coordinate the attempt to stop the release of H_2S. You should consider closing upstream and downstream valves to shut-off gas supply sources, and/or plugging or clamping leaks. Igniting escaping gas to reduce the toxicity hazard should be used **ONLY AS A LAST RESORT**. (It must first be determined if the gas can be safely ignited, taking into consideration if there is a possibility of a widespread flammable atmosphere.)

____ Once the emergency is over, return the situation to normal by:

Confirming the absence of H_2S and combustible gas throughout the area,

Discontinuing the radio silence on all channels, stating that the emergency incident is over,

Removing all barricades and warning signs,

Allowing evacuees to return to the area, and

Advising all parties previously notified that the emergency has ended.

____ Ensure the proper regulatory authorities/agencies are notified of the incident (refer to Section V: Emergency Call List).

____ Clean up the site. (Be sure all contractor crews have had appropriate HAZWOPER training.)

____ Report completion of the cleanup to the Asset Environmentalist. (Environmentalist will report this to the proper State and/or Federal agencies.)

____ Fill out all required incident reports and send originals to the Safety Department. (Keep a copy for your records.)

- Company employee receiving occupational injury or illnesses.
- Company employee involved in a vehicle accident while driving a company vehicle.
- Company property that is damaged or lost.
- Accident involving the public or a contractor; includes personal injuries, vehicle accidents, and property damage. Also includes any situation, which could result in a claim against the Company.
- Hazardous Material Spill/Release Report Form
- Emergency Drill Report

____ Assist the Safety Department in the investigation of the incident. Review the factors that caused or allowed the incident to occur, and modify operating, maintenance, and/or surveillance procedures as needed. Make appropriate repairs and train or retrain employees in the use and operation of the system.

____ If this incident was simulated for practice in emergency response, complete the Emergency Drill Report found in Section VIII: Forms/Reports and submit a copy to the Drilling Manager. (Keep one copy in area files to document exercising of the plan.)

Emergency Procedures
Responsibility

In the event of a release of potentially hazardous amounts of H2S, all personnel will immediately proceed upwind/ crosswind to the nearest designated briefing area. The COPC Drilling Rep. will immediately, upon assessing the situation, set this into action by taking the proper procedures to contain the gas and notify appropriate people and agencies.

1. In an emergency situation, the Drilling Rep. on duty will have complete responsibility and will take whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well and to prevent property damage.

2. The Toolpusher will assume all responsibilities of the Drilling Rep. in an emergency situation in the event the Drilling Rep. becomes incapacitated.

3. Advise each contractor, service company, and all others entering the site that H2S may be encountered and the potential hazards that may exist.

4. Authorize the evacuation of local residents if H2S threatens their safety.

5. Keep the number of persons on location to a minimum during hazardous operations.

6. Direct corrective actions to control the flow of gas.

7. Has full responsibility for igniting escaping gas to reduce the toxicity hazard.

   This should be used **ONLY AS A LAST RESORT**.

IV. EMERGENCY EQUIPMENT and MAINTENANCE

Emergency Equipment Suppliers

United Safety 432.400.2889
Safety Equipment

Gryphon Oilfield Services 432.550.0600
Safety Equipment

DXP/ Safety International – Odessa, Tx. 432.580.3770
H_2S monitors
Breathing air includes cascade systems
First aid and medical supplies
Safety equipment
H2S Specialist

Total Safety US Odessa, Tx/ Hobs, NM 432.561.5049 Odessa
575.392.2973 Hobbs
H_2S monitors
Breathing air includes cascade systems
First aid and medical supplies
Safety equipment

DXP/ Indian Fire & Safety – Hobbs, NM 575.393.3093
H_2S monitors
Breathing air including cascade systems trailer mounted
30 minute air packs
Safety Equipment

TC Safety – Odessa, Tx. 432.413.8240
H_2S monitors
Cascade systems trailer mounted
30 minute air packs
Safety Equipment
H2S Specialist

Secorp Industries – Odessa, Tx. 432.614.2565
H2S Monitor Systems
Cascade Systems
H2S Specialist
H2S, CPR, First Aid Training

Emergency Equipment and Maintenance (continued)

General Information

Materials used for repair should be suitable for use where H_2S concentrations exceed 100 ppm. In general, carbon steels having low-yield strengths and a hardness below RC-22 are suitable. The engineering staff should be consulted if any doubt exists on material specifications.

Appropriate signs should be maintained in good condition at location entrance and other locations as specified in Texas Rule 36 and NMOCD Rule 118.

All notification lists should be kept current with changes in names, telephone numbers, etc.

All shutdown devices, alarms, monitors, breathing air systems, etc., should be maintained in accordance with applicable regulations.

All personnel working in H_2S areas shall have received training on the hazards, characteristics, and properties of H_2S, and on procedures and safety equipment applicable for use in H_2S areas.

H2S Safety Equipment and Monitoring Systems

An H2S emergency response package will be maintained at locations requiring H2S monitoring. The package will contain at a minimum the following:

3 – Fixed H2S sensors located as follows:
- 1 – on the rig floor
- 1 – at the Bell Nipple
- 1 – at the Shale Shaker or Flowline

1 – Entrance Warning Sign located at the main entrance to the location, with warning signs and colored flags to determine the current status for entry into the location.

2 – Windsocks that are clearly visible.

1 – Audible warning system located on rig floor

2 – Visual warning systems (Beacon Lights)
- 1 – Located at the rig floor
- 1 – Located in the mud mixing room

Note: All alarms (audible and visual) should be set to alarm at 10 ppm.

2 - Briefing areas clearly marked
- 2 - SCBA's at each briefing area
- 1- SCBA located at the Drilling Reps office

Note:
1. **All SCBA's must be positive pressure type only!!!**
2. **All SCBA's must either be Scott or Drager brand.**
3. **All SCBA's face pieces should be size large, unless otherwise specified by the Drilling Supervisor.**

5 – Emergency Escape Paks located at Top Doghouse.
Note: Ensure provisions are included for any personnel working above rig floor in derrick.

1 – Tri or Quad gas monitor located at the Drilling Reps office. This will be used to determine if the work area if safe to re-enter prior to returning to work following any alarm.

V. EMERGENCY CALL LIST:

The following is a priority list of personnel to contact in an emergency situation.

Supervisory Personnel	Office No.		Cellphone
Drilling Supt. (Unconventional) **Scott Nicholson**	432.688.9065		432.230.8010
Field Supervisors: **Clint Case** **Patrick Wellman**	 432.688.6878 432.688.9183		 940.231.2839 432.215.7079
Safety Support: **Matt Oster** **Ryan Vaccarella**	 830.583.1245 985.217.7594		 601.540.6988 NA
Operations Support: **Dale Rowell**	 NA		 830.400.2006
Supt Operations-SENM **Mike Neuschafer**-Delaware Basin **Sean Robinson**-SENM	 432.688.6834 575.391.3147		 713.419.9919 575.390.8873
MCBU HSE Permian Supervisor **Chris Boggs**	 432.688.6806		 907.903.5815
Manager RBU/MCBU D & C **Colin Stevenson**	 832.486.2527		 832.240.6606

EMERGENCY CALL LIST: State Officials

Regulatory Agencies

Texas Railroad Commission (District 8) Office: 432.684.5581
Midland, Texas

New Mexico Oil Conservation Commission Office: 575.393.6161
P. O. Box 1980
Hobbs, New Mexico 88240-1980

Bureau of Land Mngt.
Carlsbad Field Office Office: 575.234.5972
620 E. Greene St. Fax: 575.885.9264
Carlsbad, NM 88220

EMERGENCY CALL LIST: Local Officials

Refer to the Location Information Sheet
Note: The LIS should include any area residents (i.e. rancher's house, etc)

VI. Public Media Relations

The **Public Information Officer** becomes the ConocoPhillips on-scene contact (once designated by the Phillips On-Scene Incident Commander).

Confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

Answer media questions honestly and **only with facts,** do not speculate about the cause, amount of damage, or the potential impact of the incident of the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are comfortable answering a question or if you are unsure of the answer, use terms such as the following:

- "I do not know. I will try to find out."
- I am not qualified to answer that question, but I will try to find someone who can."
- "It is under investigation."

Note:
Do Not Say "No Comment." (This implies a cover-up.)

Do Not Disclose Names of Injured or Dead! Confer with the Houston Office's Human Relations Representative, who is responsible for providing that information.

VII. Public Notification/Evacuation

Alert and/or Evacuate People within the Exposure Area

1. Public Notification – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person **first** observing the leak should take **immediate** steps to cause notification of any nearby residents. The avoidance of injury or loss of life should be of prime consideration and given top priority in all cases. If the incident is of such magnitude, or at such location as to create a hazardous situation, local authorities will be requested to assist in the evacuation and roadblocks of the designated area until the situation can be returned to normal.

   Note: Bilingual employees may be needed to assist in notification of residents.

2. Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H_2S. Extreme caution should be exercised in order to avoid any depressions or low-lying areas in the terrain. The public area within the radius of exposure should be evacuated in a southwesterly and southeasterly direction so as to avoid the prevailing southern wind direction.

   Roadblocks and the staging area should be established as necessary for current wind conditions.

Note: In all situations, consideration should be given to wind direction and weather conditions. H_2S is heavier than air and can settle in low spots. Shifts in wind direction can also change the location of possible hazardous areas.

VIII. FORMS & REPORTS

I. Incident Log

II. Preliminary Emergency Information Sheet

III. Emergency Drill Report

IV. Onshore Hazardous Material Spill/Release Report Form

V. Immediate Report of Occupational Injury or Illness
Report of Accident-Public Contractor
Report of Loss or Damage to Company Property
Report of Automotive Incident