<u>District I</u> 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

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 278440

		,		• D. u==, . u		,	K, OR ADD A Z	··-		
	me and Address						2. 0	GRID Number		
	NOCOPHILLIPS C	OMPANY						217817		
	).Box 2197						3. A	PI Number		
	uston, TX 77252							30-025-4695	4	
4. Property Co		5. Pr	operty Name				6. W	ell No.		
327	7230		CAPROCK YI	ESO AREA CYA C				101H		
				7. Su	rface Location					
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
L	23	17S	33E	L	2526	6 S	531	W	Lea	
				8. Proposed	Bottom Hole Loc	ation				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	
G	21	178	33E	G	2315	5 N	2606	E	Lea	a
				0.00	ool Information					
LEAMEX:PAI	DDOCK			3. PC	on information		37800			
LEAWEX,FA	DDOCK						37000			
				Addition	al Well Information	on				
11. Work Type		12. Well Type		13. Cable/Rotary	14.	Lease Type	15. Ground L	evel Elevation		
Ne	w Well	OIL				State	41	45		
16. Multiple		17. Proposed De	epth	18. Formation	19.	Contractor	20. Spud Dat	е		
N		1459	9	Yeso			5/	1/2020		
Depth to Grou	nd water			Distance from near	est fresh water well		Distance to no	earest surface water		
We will be	using a closed-lo	op system in lieu of	lined pits							
	<b>.</b>	., .,		21. Proposed Ca	aing and Caman	t Duoguom				
Туре	Hole Size	Casing Size		Casing Weight/ft		ng Depth	Sacks of Cemer	+	Estimated TOC	
Surf	17.5	13.375		54.5		535	890		0	
Int1	12.25	9.625		40		890	305		0	
Prod	8.75	7		35		1599		2375 0		

Production casing consists of 7", 35 lb, L-80 with a crossover to 5.5", 20 lbs, L-80 cemented to surface.

22. Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	Cameron
Double Ram	5000	3000	Cameron
Pipe	5000	3000	Cameron

knowledge and be	elief.	s true and complete to the best of my  NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATIO	ON DIVISION	
Printed Name:	Electronically filed by Susan B N	/launder	Approved By:	Paul F Kautz		
Title:	tle: Sr. Regulatory Coordinator			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			

Received by OCD: 3/10/2020 10:22:36 AM

<u>District I</u> 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-46954			3 Pool Name LEAMEX;PADDOCK				
<sup>4</sup> Property Code 327230		CAPROCK YÉS	O AREA CYA C	<sup>6</sup> Well Number 101H			
<sup>7</sup> OGRID N <sub>0</sub> . 217817			perator Name Phillips Company	<sup>9</sup> Elevation 4144.9'			

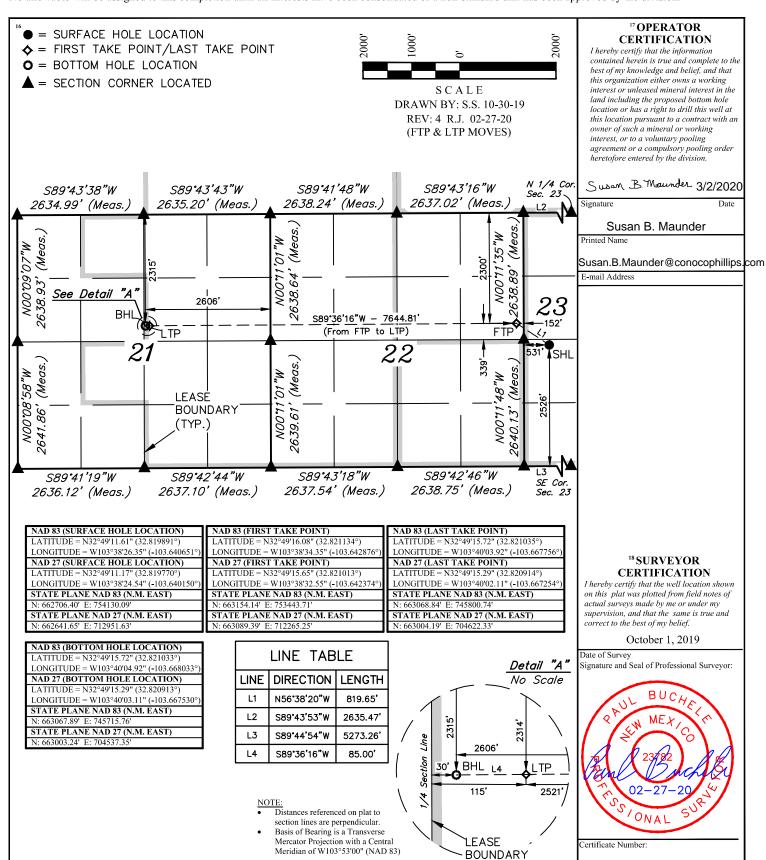
#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	23	17S	33E		2526	SOUTH	531	WEST	LEA

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Secti	ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	1	17S	33E		2315	NORTH	2606	EAST	LEA
12 Dedicated Acre 240	es	<sup>13</sup> Jo	oint or Infill	14 Conso	olidation Code	15 Order No.				

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.



LEASE

**BOUNDARY** 

Certificate Number

<u>District I</u> 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

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

• NGL Removal - On lease

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

		C	SAS CAPTU	JRE PL	AN	
Date: 3/10/2020						
☑ Original	Operator & OGRID	No.: [217817]	CONOCOPHILLI	PS COMPA	.NY	
☐ Amended - Reason for Amendment:						
This Gas Capture Plan outlines actions to b	oe taken by the Or	perator to reduce	well/production fa	cility flaring	/venting fo	or new completion (new drill, recomplete to new zone, re-frac) activit
Note: Form C-129 must be submitted and	approved prior to	exceeding 60 day	ys allowed by Rul	e (Subsecti	ion A of 19	.15.18.12 NMAC).
Nell(s)/Production Facility - Name of faci						
The well(s) that will be located at the produ	action facility are s	hown in the table		Expected	Flared or	Comments
		(ULSTR)	Footages	MCF/D	Vented or	Comments
CAPROCK YESO AREA CYA C #101H	30-025-46954	L-23-17S-33E	2526S 0531W	700	Flared	Intermittent flaring may occur during well and facility start-up.
Sathering System and Pipeline Notification	<u>on</u>					
DCP OPERATING COMPANY, LP and Mexico. It will require 5000' of pipeline	d will be connected to connect the factorial trilling, completion CP OPERATING CONFANY, LP	d to DCP OPERA cility to Low Pre and estimated fin OMPANY, LP Processing	ATING COMPANY, ssure gathering rst production dat have periodic or Plant located in	system. Conference of Sec. 06,	ow Pressu ONOCOPI that are so calls to disc	in place. The gas produced from production facility is dedicated to ure gathering system located in Lea County, New HILLIPS COMPANY provides (periodically) to heduled to be drilled in the foreseeable future. In addition, cuss changes to drilling and completion schedules. Gas from these Rng. 37E, Lea County, New Mexico. The actual floor
Flowback Strategy						
	ds contain minima rational issues on	l sand, the wells  DCP OPERATIN	will be turned to p G COMPANY, LP	oroduction f	facilities. G	ill be flared or vented. During flowback, the fluids and sand content cas sales should start as soon as the wells start flowing through the me. Based on current information, it is
Safety requirements during cleanout opera ather than sold on a temporary basis.	ations from the us	e of underbalanc	ed air cleanout sy	/stems may	/ necessita	ate that sand and non-pipeline quality gas be vented and/or flared
Alternatives to Reduce Flaring						
Below are alternatives considered from a d	conceptual standp	oint to reduce the	e amount of gas fl	ared.		
Power Generation – On lease     Only a portion of gas is con     Compressed Natural Gas – On lea     Gas flared would be minima	ase	_	_		clines	

• Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Phone:(505) 334-6178 Fax:(505) 334-6170

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 APD Comments

Permit 278440

#### PERMIT COMMENTS

Operator Name and Address:	API Number:
CONOCOPHILLIPS COMPANY [217817]	30-025-46954
P.O.Box 2197	Well:
Houston, TX 77252	CAPROCK YESO AREA CYA C #101H

Created By Comment Comment Date

Form APD Conditions

Permit 278440

<u>District I</u> 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

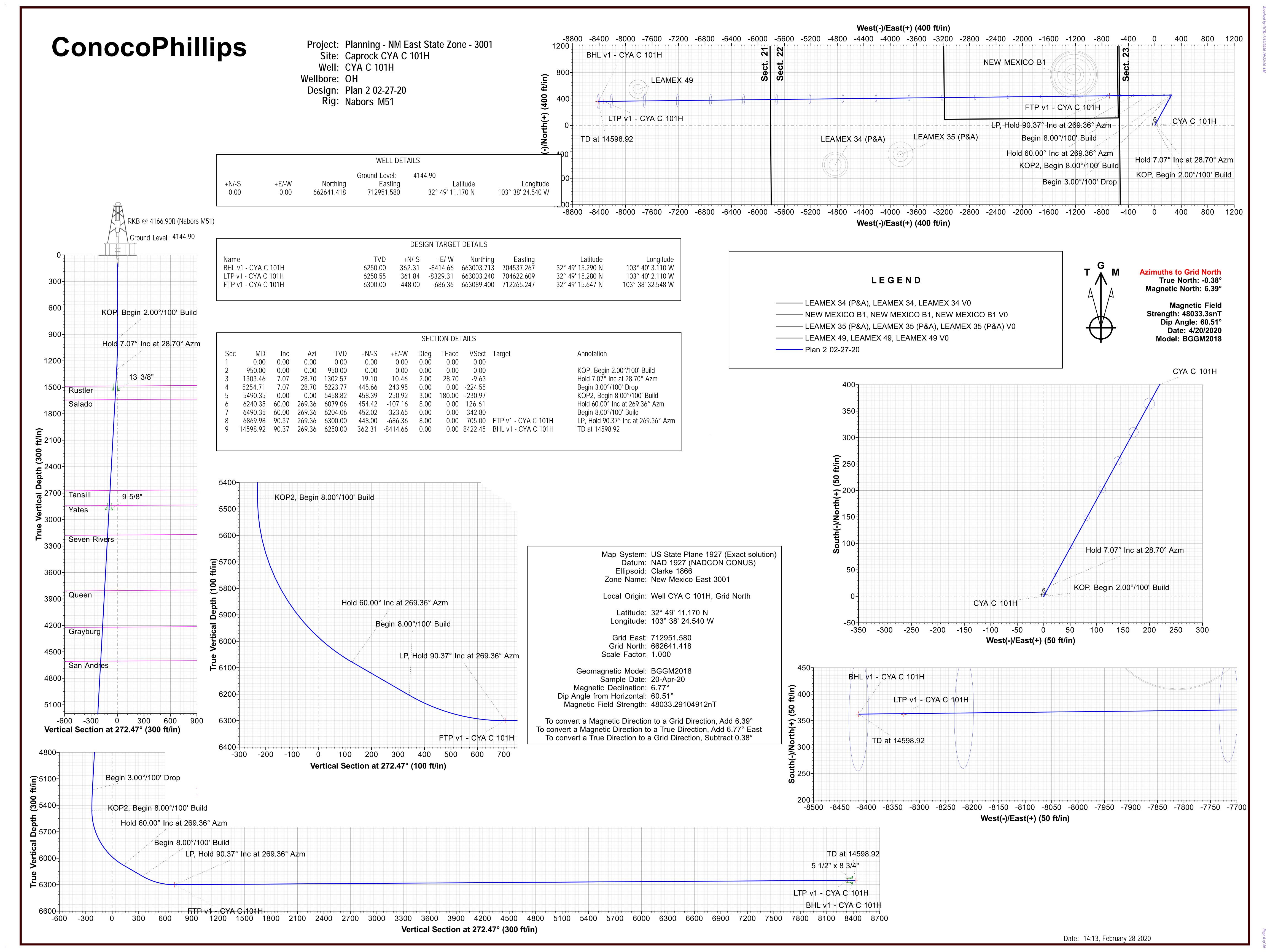
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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

#### PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
CONOCOPHILLIPS COMPANY [217817]	30-025-46954
P.O.Box 2197	Well:
Houston, TX 77252	CAPROCK YESO AREA CYA C #101H

OCD	Condition
Reviewer	
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 MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001 Caprock CYA C 101H CYA C 101H

ОН

Plan: Plan 2 02-27-20

# **Standard Planning Report**

28 February, 2020

#### Planning Report

**EDT 14 Central Planning** Database:

Company: ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Project: Planning - NM East State Zone - 3001

Site:

Well:

Caprock CYA C 101H CYA C 101H

Wellbore: ОН

Design:

Plan 2 02-27-20

**Local Co-ordinate Reference:** 

MD Reference:

North Reference:

**TVD Reference:** 

**Survey Calculation Method:** 

RKB @ 4166.90ft (Nabors M51)

RKB @ 4166.90ft (Nabors M51)

Grid

Minimum Curvature

Well CYA C 101H

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

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001 Map Zone:

System Datum:

Mean Sea Level

Using geodetic scale factor

Caprock CYA C 101H Site Site Position: Northing: 662,641.620 usft 32° 49' 11.172 N Latitude: Lat/Long 712,951.579 usft 103° 38' 24.540 W From: Easting: Longitude: **Position Uncertainty:** 0.00 ft Slot Radius: 13-3/16 " **Grid Convergence:** 0.38°

Well CYA C 101H 32° 49' 11.170 N **Well Position** +N/-S -0.20 ft 662.641.418 usft Northing: Latitude: +E/-W 0.00 ft Easting: 712,951.580 usft Longitude: 103° 38' 24.540 W **Position Uncertainty** 0.00 ft Wellhead Elevation: 4.144.90 ft **Ground Level:** 4.144.90 ft

ОН Wellbore Declination Field Strength Magnetics **Model Name** Sample Date **Dip Angle** (°) (°) (nT) 48,033.29104912 BGGM2018 4/20/2020 6.77 60.51

Plan 2 02-27-20 Design Audit Notes: PLAN 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 272.47

2/28/2020 Plan Survey Tool Program Date **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 14,598.92 Plan 2 02-27-20 (OH) MWD+IFR1+MS\_CoP Fixed:v2:Eagleford, crustal dec

#### Planning Report

EDT 14 Central Planning Database:

ConocoPhillips MCBU - Permian-Panhandle Company:

Gold Data

Planning - NM East State Zone - 3001 Project:

Caprock CYA C 101H Site:

Well: CYA C 101H

Wellbore: ОН

Design: Plan 2 02-27-20 Local Co-ordinate Reference:

**Survey Calculation Method:** 

TVD Reference:

Well CYA C 101H

RKB @ 4166.90ft (Nabors M51)

MD Reference: RKB @ 4166.90ft (Nabors M51) North Reference:

Grid

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	
950.00	0.00	0.00	950.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,303.46	7.07	28.70	1,302.57	19.10	10.46	2.00	2.00	0.00	28.70	
5,254.71	7.07	28.70	5,223.77	445.66	243.95	0.00	0.00	0.00	0.00	
5,490.35	0.00	0.00	5,458.82	458.39	250.92	3.00	-3.00	0.00	180.00	
6,240.35	60.00	269.36	6,079.06	454.42	-107.16	8.00	8.00	0.00	0.00	
6,490.35	60.00	269.36	6,204.06	452.02	-323.65	0.00	0.00	0.00	0.00	
6,869.98	90.37	269.36	6,300.00	448.00	-686.36	8.00	8.00	0.00	0.00	FTP v1 - CYA C 101H
14,598.92	90.37	269.36	6,250.00	362.31	-8,414.66	0.00	0.00	0.00	0.00	BHL v1 - CYA C 101H

#### Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Project: Planning - NM East State Zone - 3001

Site: Caprock CYA C 101H

Well: CYA C 101H

Wellbore: OH

**Design:** Plan 2 02-27-20

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well CYA C 101H

RKB @ 4166.90ft (Nabors M51)

RKB @ 4166.90ft (Nabors M51)

Grid

ed 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)
0.00 950.00	0.00 0.00	0.00 0.00	0.00 950.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	2.00°/100' Build								
1,000.00	1.00	28.70	1,000.00	0.38	0.21	-0.19	2.00	2.00	0.00
1,100.00	3.00	28.70 28.70	1,099.93	3.44	1.89	-1.74	2.00	2.00	0.00
1,200.00	5.00		1,199.68	9.56	5.23	-4.82	2.00	2.00	0.00
1,300.00	7.00	28.70	1,299.13	18.73	10.25	-9.44	2.00	2.00	0.00
1,303.46	7.07	28.70	1,302.57	19.10	10.46	-9.63	2.00	2.00	0.00
1,400.00	nc at 28.70° Azm 7.07	28.70	1,398.37	29.52	16.16	-14.88	0.00	0.00	0.00
1,487.42	7.07	28.70	1,485.13	38.96	21.33	-14.66	0.00	0.00	0.00
Rustler		200	.,	00.00	21.00	.0.00	0.00	0.00	0.00
1,500.00	7.07	28.70	1,497.61	40.32	22.07	-20.32	0.00	0.00	0.00
1,600.00	7.07	28.70	1,596.85	51.12	27.98	-25.76	0.00	0.00	0.00
1,643.66	7.07	28.70	1,640.18	55.83	30.56	-23.76 -28.13	0.00	0.00	0.00
Salado			,						
1,700.00	7.07	28.70	1,696.09	61.91	33.89	-31.19	0.00	0.00	0.00
1,800.00	7.07	28.70	1,795.33	72.71	39.80	-36.63	0.00	0.00	0.00
1,900.00	7.07	28.70	1,894.57	83.50	45.71	-42.07	0.00	0.00	0.00
2,000.00	7.07	28.70	1,993.81	94.30	51.62	-47.51	0.00	0.00	0.00
2,100.00	7.07	28.70	2,093.05	105.09	57.53	-52.95	0.00	0.00	0.00
2,200.00	7.07	28.70	2,192.29	115.89	63.44	-58.39	0.00	0.00	0.00
2,300.00	7.07	28.70	2,291.53	126.68	69.34	-63.83	0.00	0.00	0.00
2,400.00	7.07	28.70	2,390.77	137.48	75.25	-69.27	0.00	0.00	0.00
2,500.00	7.07	28.70	2,490.01	148.27	81.16	-74.71	0.00	0.00	0.00
2,600.00 2,681.92	7.07 7.07	28.70 28.70	2,589.25 2,670.55	159.07 167.91	87.07 91.91	-80.15 -84.61	0.00 0.00	0.00 0.00	0.00 0.00
Tansill	7.07	20.70	2,070.33	107.91	91.91	-04.01	0.00	0.00	0.00
2,700.00	7.07	28.70	2,688.49	169.87	92.98	-85.59	0.00	0.00	0.00
2,800.00	7.07	28.70	2,787.73	180.66	98.89	-91.03	0.00	0.00	0.00
2,853.28	7.07	28.70	2,840.61	186.41	102.04	-93.93	0.00	0.00	0.00
Yates	1.01	20.70	2,010.01	100.11	102.01	00.00	0.00	0.00	0.00
2,900.00	7.07	28.70	2,886.97	191.46	104.80	-96.47	0.00	0.00	0.00
3,000.00	7.07	28.70	2,986.21	202.25	110.71	-101.91	0.00	0.00	0.00
3,100.00	7.07	28.70	3,085.45	213.05	116.62	-107.35	0.00	0.00	0.00
3,190.97	7.07	28.70	3,175.73	222.87	121.99	-112.29	0.00	0.00	0.00
Seven Rive	rs								
3,200.00	7.07	28.70	3,184.69	223.84	122.53	-112.79	0.00	0.00	0.00
3,300.00	7.07	28.70	3,283.93	234.64	128.44	-118.23	0.00	0.00	0.00
3,400.00 3,500.00	7.07 7.07	28.70 28.70	3,383.17 3,482.41	245.43 256.23	134.35 140.26	-123.66 -129.10	0.00 0.00	0.00 0.00	0.00 0.00
3,600.00	7.07 7.07	28.70	3,581.65	267.02	140.26	-129.10 -134.54	0.00	0.00	0.00
3,700.00 3,800.00	7.07 7.07	28.70 28.70	3,680.89 3,780.13	277.82 288.62	152.07 157.98	-139.98 -145.42	0.00 0.00	0.00 0.00	0.00 0.00
3,826.02	7.07	28.70	3,805.95	291.42	157.96	-145.42 -146.84	0.00	0.00	0.00
Queen			-,						
3,900.00	7.07	28.70	3,879.37	299.41	163.89	-150.86	0.00	0.00	0.00
4,000.00	7.07	28.70	3,978.61	310.21	169.80	-156.30	0.00	0.00	0.00
4,100.00	7.07	28.70	4,077.84	321.00	175.71	-161.74	0.00	0.00	0.00
4,200.00	7.07	28.70	4,177.08	331.80	181.62	-167.18	0.00	0.00	0.00
4,244.35	7.07	28.70	4,221.10	336.58	184.24	-169.59	0.00	0.00	0.00
Grayburg									

#### Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Project: Planning - NM East State Zone - 3001

Site: Caprock CYA C 101H

Well: CYA C 101H

Wellbore: OH

**Design:** Plan 2 02-27-20

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well CYA C 101H

RKB @ 4166.90ft (Nabors M51)

RKB @ 4166.90ft (Nabors M51)

Grid

ed 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)
4,300.00	7.07	28.70	4,276.32	342.59	187.53	-172.62	0.00	0.00	0.00
4,400.00	7.07	28.70	4,375.56	353.39	193.44	-178.06	0.00	0.00	0.00
4,500.00	7.07	28.70	4,474.80	364.18	199.35	-183.50	0.00	0.00	0.00
4,600.00	7.07	28.70	4,574.04	374.98	205.26	-188.94	0.00	0.00	0.00
4,632.43	7.07	28.70	4,606.23	378.48	207.18	-190.70	0.00	0.00	0.00
San Andres	7.07	26.70	4,000.23	370.40	207.16	-190.70	0.00	0.00	0.00
4,700.00	7.07	28.70	4,673.28	385.77	211.17	-194.38	0.00	0.00	0.00
4,800.00	7.07	28.70	4,772.52	396.57	217.08	-199.82	0.00	0.00	0.00
4,900.00	7.07	28.70	4,871.76	407.36	222.99	-205.26	0.00	0.00	0.00
5,000.00	7.07	28.70	4,971.00	418.16	228.90	-210.70	0.00	0.00	0.00
5,100.00	7.07	28.70	5,070.24	428.96	234.80	-216.14	0.00	0.00	0.00
5,200.00	7.07	28.70	5,169.48	439.75	240.71	-221.57	0.00	0.00	0.00
5,254.71	7.07	28.70	5,223.77	445.66	243.95	-224.55	0.00	0.00	0.00
Begin 3.00°/1	100' Drop								
5,300.00	5.71	28.70	5,268.78	450.08	246.37	-226.78	3.00	-3.00	0.00
5,400.00	2.71	28.70	5,368.50	456.52	249.89	-230.02	3.00	-3.00	0.00
5,490.35	0.00	0.00	5,458.82	458.39	250.92	-230.97	3.00	-3.00	0.00
	8.00°/100' Build		5,						
5,500.00	0.77	269.36	5,468.47	458.39	250.85	-230.90	8.00	8.00	0.00
5,600.00	8.77	269.36	5,568.04	458.30	242.54	-222.60	8.00	8.00	0.00
5,700.00	16.77	269.36	5,665.49	458.05	220.45	-200.54	8.00	8.00	0.00
5,800.00	24.77	269.36	5,758.91	457.66	185.02	-165.16	8.00	8.00	0.00
5,900.00	32.77	269.36	5,846.49	457.13	136.93	-117.14	8.00	8.00	0.00
6,000.00	40.77	269.36	5,926.53	456.47	77.12	-57.41	8.00	8.00	0.00
6,100.00	48.77	269.36	5,997.47	455.69	6.75	12.86	8.00	8.00	0.00
6,193.70	56.27	269.36	6,054.44	454.86	-67.55	87.05	8.00	8.00	0.00
Glorieta									
6,200.00	56.77	269.36	6,057.92	454.80	-72.80	92.30	8.00	8.00	0.00
6,240.35	60.00	269.36	6,079.06	454.42	-107.16	126.61	8.00	8.00	0.00
	nc at 269.36° Az		0.400.00	452.05	450.00	470.40	0.00	0.00	0.00
6,300.00 6,339.48 <b>Paddock</b>	60.00 60.00	269.36 269.36	6,108.89 6,128.63	453.85 453.47	-158.82 -193.00	178.19 212.33	0.00 0.00	0.00 0.00	0.00 0.00
6,400.00	60.00	269.36	6,158.89	452.89	-245.41	264.67	0.00	0.00	0.00
6,490.35	60.00	269.36	6,204.06	452.02	-323.65	342.80	0.00	0.00	0.00
Begin 8.00°/1		200.20	0.000.00	454.00	222.04	254.40	0.00	0.00	0.00
6,500.00	60.77	269.36	6,208.83	451.93	-332.04	351.18	8.00	8.00	0.00
6,600.00	68.77	269.36	6,251.42	450.93	-422.42	441.43	8.00	8.00	0.00
6,700.00	76.77	269.36	6,281.01	449.87	-517.85	536.73	8.00	8.00	0.00
6,789.17	83.91	269.36	6,295.97	448.89	-605.70	624.45	8.00	8.00	0.00
Formation 12		_00.00	-,=00.01		555.75	J 10	3.00	0.00	3.00
6,800.00	84.77	269.36	6,297.04	448.77	-616.47	635.21	8.00	8.00	0.00
6,869.98	90.37	269.36	6,300.00	448.00	-686.36	705.00	8.00	8.00	0.00
,	37° Inc at 269.36								
6,900.00	90.37	269.36	6,299.81	447.67	-716.38	734.97	0.00	0.00	0.00
7,000.00	90.37	269.36	6,299.16	446.56	-816.37	834.82	0.00	0.00	0.00
7,100.00	90.37	269.36	6,298.51	445.45	-916.36	934.67	0.00	0.00	0.00
7,200.00	90.37	269.36	6,297.87	444.34	-1,016.35	1,034.53		0.00	0.00
7,300.00	90.37	269.36	6,297.22	443.23	-1,116.34	1,134.38	0.00	0.00	0.00
7,400.00	90.37	269.36	6,296.57	442.12	-1,216.34	1,234.23	0.00	0.00	0.00
7,500.00	90.37	269.36	6,295.92	441.01	-1,316.33	1,334.08	0.00	0.00	0.00
7,600.00	90.37	269.36	6,295.28	439.91	-1,416.32	1,433.93	0.00	0.00	0.00

#### Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Project: Planning - NM East State Zone - 3001

Site: Caprock CYA C 101H

Well: CYA C 101H

Wellbore: OH

**Design:** Plan 2 02-27-20

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well CYA C 101H

RKB @ 4166.90ft (Nabors M51)

RKB @ 4166.90ft (Nabors M51)

Grid

sign:	Plan 2 02-27-2	20							
anned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
7,700.00	90.37	269.36	6,294.63	438.80	-1,516.31	1,533.78	0.00	0.00	0.00
7,800.00	90.37	269.36	6,293.98	437.69	-1,616.30	1,633.63	0.00	0.00	0.00
7,900.00	90.37	269.36	6,293.34	436.58	-1,716.29	1,733.49	0.00	0.00	0.00
8,000.00	90.37	269.36	6,292.69	435.47	-1,816.29	1,833.34	0.00	0.00	0.00
8,100.00	90.37	269.36	6,292.04	434.36	-1,916.28	1,933.19	0.00	0.00	0.00
8,200.00	90.37	269.36	6,291.40	433.25	-2,016.27	2,033.04	0.00	0.00	0.00
8,300.00	90.37	269.36	6,290.75	432.15	-2,116.26	2,132.89	0.00	0.00	0.00
8,400.00	90.37	269.36	6,290.10	431.04	-2,216.25	2,232.74	0.00	0.00	0.00
8,500.00	90.37	269.36	6,289.46	429.93	-2,316.25	2,332.60	0.00	0.00	0.00
8,600.00	90.37	269.36	6,288.81	428.82	-2,416.24	2,432.45	0.00	0.00	0.00
8,700.00	90.37	269.36	6,288.16	427.71	-2,516.23	2,532.30	0.00	0.00	0.00
8,800.00	90.37	269.36	6,287.51	426.60	-2,616.22	2,632.15	0.00	0.00	0.00
8,900.00	90.37	269.36	6,286.87	425.49	-2,716.21	2,732.00	0.00	0.00	0.00
9,000.00	90.37	269.36	6,286.22	424.38	-2,816.20	2,831.85	0.00	0.00	0.00
					2 016 20	2 024 70		0.00	
9,100.00 9,200.00	90.37 90.37	269.36 269.36	6,285.57 6,284.93	423.28 422.17	-2,916.20 -3,016.19	2,931.70 3,031.56	0.00 0.00	0.00 0.00	0.00 0.00
9,300.00	90.37	269.36	6,284.28	422.17	-3,016.19 -3,116.18	3,131.41	0.00	0.00	0.00
9,400.00	90.37	269.36	6,283.63	419.95	-3,110.16	3,131.41	0.00	0.00	0.00
9,500.00	90.37	269.36	6,282.99	418.84	-3,316.16	3,331.11	0.00	0.00	0.00
9,600.00	90.37	269.36	6,282.34	417.73	-3,416.15	3,430.96	0.00	0.00	0.00
9,700.00	90.37	269.36	6,281.69	416.62	-3,516.15	3,530.81	0.00	0.00	0.00
9,800.00	90.37	269.36	6,281.05	415.51	-3,616.14	3,630.67	0.00	0.00	0.00
9,900.00	90.37	269.36	6,280.40	414.41	-3,716.13	3,730.52	0.00	0.00	0.00
10,000.00	90.37	269.36	6,279.75	413.30	-3,816.12	3,830.37	0.00	0.00	0.00
10,100.00	90.37	269.36	6,279.10	412.19	-3,916.11	3,930.22	0.00	0.00	0.00
10,200.00	90.37	269.36	6,278.46	411.08	-4,016.11	4,030.07	0.00	0.00	0.00
10,300.00	90.37	269.36	6,277.81	409.97	-4,116.10	4,129.92	0.00	0.00	0.00
10,400.00	90.37	269.36	6,277.16	408.86	-4,216.09	4,229.77	0.00	0.00	0.00
10,500.00	90.37	269.36	6,276.52	407.75	-4,316.08	4,329.63	0.00	0.00	0.00
10,600.00	90.37	269.36	6,275.87	406.65	-4,416.07	4,429.48	0.00	0.00	0.00
10,700.00	90.37	269.36	6,275.22	405.54	-4,516.06	4,529.33	0.00	0.00	0.00
10,800.00	90.37	269.36	6,274.58	404.43	-4,616.06	4,629.18	0.00	0.00	0.00
10,900.00	90.37	269.36	6,273.93	403.32	-4,716.05	4,729.03	0.00	0.00	0.00
11,000.00	90.37	269.36	6,273.28	402.21	-4,816.04	4,828.88	0.00	0.00	0.00
11,100.00	90.37	269.36	6,272.64	401.10	-4,916.03	4,928.73	0.00	0.00	0.00
11,200.00	90.37	269.36	6,271.99	399.99	-5,016.02	5,028.59	0.00	0.00	0.00
11,300.00	90.37	269.36	6,271.34	398.88	-5,116.01	5,128.44	0.00	0.00	0.00
11,400.00	90.37	269.36	6,270.69	397.78	-5,216.01	5,228.29	0.00	0.00	0.00
11,500.00	90.37	269.36	6,270.05	396.67	-5,316.00	5,328.14	0.00	0.00	0.00
	00.27	260.26		305 56			0.00	0.00	0.00
11,600.00 11,700.00	90.37 90.37	269.36 269.36	6,269.40 6,268.75	395.56 394.45	-5,415.99 -5,515.98	5,427.99 5,527.84	0.00 0.00	0.00 0.00	0.00
11,800.00	90.37	269.36	6,268.11	394.45 393.34	-5,515.96 -5,615.97	5,527.84 5,627.70	0.00	0.00	0.00 0.00
11,900.00	90.37	269.36	6,267.46	392.23	-5,715.97 -5,715.97	5,727.55	0.00	0.00	0.00
12,000.00	90.37	269.36	6,266.81	391.12	-5,715.97 -5,815.96	5,827.40	0.00	0.00	0.00
12,100.00	90.37	269.36	6,266.17	390.01	-5,915.95	5,927.25	0.00	0.00	0.00
12,200.00	90.37	269.36	6,265.52	388.91	-6,015.94	6,027.10	0.00	0.00	0.00
12,300.00	90.37	269.36	6,264.87	387.80	-6,115.93	6,126.95	0.00	0.00	0.00
12,400.00	90.37	269.36	6,264.23	386.69	-6,215.92	6,226.80	0.00	0.00	0.00
12,500.00	90.37	269.36	6,263.58	385.58	-6,315.92	6,326.66	0.00	0.00	0.00
12,600.00	90.37	269.36	6,262.93	384.47	-6,415.91	6,426.51	0.00	0.00	0.00
12,700.00	90.37	269.36	6,262.28	383.36	-6,515.90	6,526.36	0.00	0.00	0.00
12,800.00	90.37	269.36	6,261.64	382.25	-6,615.89	6,626.21	0.00	0.00	0.00
12,900.00	90.37	269.36	6,260.99	381.15	-6,715.88	6,726.06	0.00	0.00	0.00

#### Planning Report

Database: EDT 14 Central Planning

Company: ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Project: Planning - NM East State Zone - 3001

Site: Caprock CYA C 101H

Well: CYA C 101H Wellbore: OH

**Design:** Plan 2 02-27-20

Local Co-ordinate Reference:

TVD Reference:

RKB @ 4166.90ft (Nabors M51)

MD Reference: North Reference:

Survey Calculation Method:

RKB @ 4166.90ft (Nabors M51)

Grid

Minimum Curvature

Well CYA C 101H

ned 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)
13,000.00	90.37	269.36	6,260.34	380.04	-6,815.87	6,825.91	0.00	0.00	0.00
13,100.00	90.37	269.36	6,259.70	378.93	-6,915.87	6,925.76	0.00	0.00	0.00
13,200.00	90.37	269.36	6,259.05	377.82	-7,015.86	7,025.62	0.00	0.00	0.00
13,300.00	90.37	269.36	6,258.40	376.71	-7,115.85	7,125.47	0.00	0.00	0.00
13,400.00	90.37	269.36	6,257.76	375.60	-7,215.84	7,225.32	0.00	0.00	0.00
13,500.00	90.37	269.36	6,257.11	374.49	-7,315.83	7,325.17	0.00	0.00	0.00
13,600.00	90.37	269.36	6,256.46	373.38	-7,415.83	7,425.02	0.00	0.00	0.00
13,700.00	90.37	269.36	6,255.82	372.28	-7,515.82	7,524.87	0.00	0.00	0.00
13,800.00	90.37	269.36	6,255.17	371.17	-7,615.81	7,624.73	0.00	0.00	0.00
13,900.00	90.37	269.36	6,254.52	370.06	-7,715.80	7,724.58	0.00	0.00	0.00
14,000.00	90.37	269.36	6,253.87	368.95	-7,815.79	7,824.43	0.00	0.00	0.00
14,100.00	90.37	269.36	6,253.23	367.84	-7,915.78	7,924.28	0.00	0.00	0.00
14,200.00	90.37	269.36	6,252.58	366.73	-8,015.78	8,024.13	0.00	0.00	0.00
14,300.00	90.37	269.36	6,251.93	365.62	-8,115.77	8,123.98	0.00	0.00	0.00
14,400.00	90.37	269.36	6,251.29	364.51	-8,215.76	8,223.83	0.00	0.00	0.00
14,500.00	90.37	269.36	6,250.64	363.41	-8,315.75	8,323.69	0.00	0.00	0.00
14,598.92	90.37	269.36	6,250.00	362.31	-8,414.66	8,422.45	0.00	0.00	0.00
TD at 14598.	92								

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
BHL v1 - CYA C 101H - plan hits target ce - Point	0.00 enter	0.00	6,250.00	362.31	-8,414.66	663,003.712	704,537.266	32° 49' 15.290 N	103° 40' 3.110 W
LTP v1 - CYA C 101H - plan misses targe - Point	0.00 et center by 13.6	0.00 65ft at 14500	6,250.55 0.00ft MD (62	361.84 250.64 TVD, 36	-8,329.31 63.41 N, -831	663,003.239 5.75 E)	704,622.609	32° 49' 15.280 N	103° 40' 2.110 W
FTP v1 - CYA C 101H - plan hits target ce - Point	0.00 enter	0.00	6,300.00	448.00	-686.36	663,089.400	712,265.247	32° 49' 15.647 N	103° 38' 32.548 W

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	1,537.68	1,535.00	13 3/8"		13-3/8	17-1/2	
	2,903.06	2,890.00	9 5/8"		9-5/8	12-1/4	
	14,570.00	6,250.19	5 1/2" x 8 3/4"		5-1/2	8-3/4	

#### Planning Report

EDT 14 Central Planning Database: Company:

ConocoPhillips MCBU - Permian-Panhandle

Gold Data

Planning - NM East State Zone - 3001

Caprock CYA C 101H Site:

Well: CYA C 101H

Wellbore: ОН Design: Plan 2 02-27-20

Project:

Local Co-ordinate Reference:

TVD Reference:

Well CYA C 101H

RKB @ 4166.90ft (Nabors M51)

MD Reference:

North Reference: **Survey Calculation Method:**  RKB @ 4166.90ft (Nabors M51)

Grid

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,487.42	1,485.13	Rustler		-0.37	272.46	
	1,643.66	1,640.18	Salado		-0.37	272.46	
	2,681.92	2,670.55	Tansill		-0.37	272.46	
	2,853.28	2,840.61	Yates		-0.37	272.46	
	3,190.97	3,175.73	Seven Rivers		-0.37	272.46	
	3,826.02	3,805.95	Queen		-0.37	272.46	
	4,244.35	4,221.10	Grayburg		-0.37	272.46	
	4,632.43	4,606.23	San Andres		-0.37	272.46	
	6,193.70	6,054.44	Glorieta		-0.37	272.46	
	6,339.48	6,128.63	Paddock		-0.37	272.46	
	6,789.17	6,295.97	Formation 12		-0.37	272.46	

lan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
950.00	950.00	0.00	0.00	KOP, Begin 2.00°/100' Build
1,303.46	1,302.57	19.10	10.46	Hold 7.07° Inc at 28.70° Azm
5,254.71	5,223.77	445.66	243.95	Begin 3.00°/100' Drop
5,490.35	5,458.82	458.39	250.92	KOP2, Begin 8.00°/100' Build
6,240.35	6,079.06	454.42	-107.16	Hold 60.00° Inc at 269.36° Azm
6,490.35	6,204.06	452.02	-323.65	Begin 8.00°/100' Build
6,869.98	6,300.00	448.00	-686.36	LP, Hold 90.37° Inc at 269.36° Azm
14,598.92	6,250.00	362.31	-8,414.66	TD at 14598.92



# H<sub>2</sub>S Contingency Plan April 2018

H<sub>2</sub>S Contingency Plan Holders:

Attached is an H<sub>2</sub>S 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**

- I. Purpose
- II. Scope
- III. Procedures
- IV. Emergency Equipment and Maintenance

Emergency Equipment Suppliers General Information H2S Safety Equipment and Monitoring Systems

- V. Emergency Call List
- VI. Public/Media Relations
- VII. Pubic Notification/Evacuation
- VIII. Forms/Reports



# HYDROGEN SULFIDE (H<sub>2</sub>S) 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<sub>2</sub>S 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<sub>2</sub>S release. Release of H<sub>2</sub>S 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<sub>2</sub>S could exist under specific weather conditions.

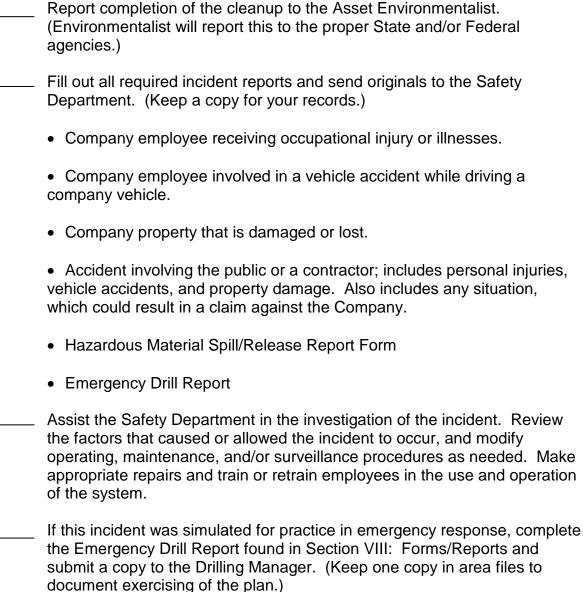
# III. PROCEDURES

# 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). **D**ETECT the problem **ESTIMATE** likely harm without intervention **CHOOSE** response objectives **IDENTIFY** action options **D**O the best option **E**VALUATE the progress

	inary Emergency Information Sheet II: Forms/Reports).
Call your supervisor	(refer to Section V: Emergency Call List).
notification & evacua (refer to Section VII: assistance from Con Section V: Emergend	response as necessary. (This may include ation of all personnel and/or nearby residents/public Public Notification/Evacuation), requesting accophillips personnel or outside agencies (refer to be Call List) and obtaining any safety equipment that er to Section IV: Emergency Equipment and
	cal emergency response agencies of the incident as he appropriate regulatory agencies. (refer to Section _ist).
— Ensure site security.	
ppm H₂S radius	and /or warning signs at or beyond the calculated 100 of exposure (ROE). All manned barricades must be n H <sub>2</sub> S monitor and a 2-way radio.
— Set roadblocks	and staging area as determined.
—— Establish the Incider scene response pers	nt Command Structure by designating appropriate onsonnel as follows:
Recording Secretary Public Information O Safety/Medical Office Decontamination Off	fficer ————————————————————————————————————
	Secretary" begin documenting the incident on the to Section VIII: Forms/Reports).
•	adio silence on all channels that use your radio tower her notice, the channels should be used for ications only.
—— Perform a Site Chara	acterization and designate the following:
Warm Zone	Hazardous Area Preparation & Decontamination Area Safe Area

# <u>AND</u>

Public Relations Briefing Area Staging Area Triage Area Decontamination Area	(Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (Warm Zone)
<ul> <li>Refer all media personnel to ConocoPhillips' On-Scene Officer (refer to Section VI: Public Media Relations).</li> <li>Coordinate the attempt to stop the release of H<sub>2</sub>S. You</li> </ul>	should consider
closing upstream and downstream valves to shut-off gas and/or plugging or clamping leaks. Igniting escaping ga toxicity hazard should be used <b>ONLY AS A LAST RESC</b> be determined if the gas can be safely ignited, taking int there is a possibility of a widespread flammable atmospl	s to reduce the <b>DRT</b> . (It must first to consideration if
Once the emergency is over, return the situation to norm	nal by:
Confirming the absence of $H_2S$ and combustible gaarea,	as throughout the
Discontinuing the radio silence on all channels, sta emergency incident is over,	ting that the
Removing all barricades and warning signs,	
Allowing evacuees to return to the area, and	
Advising all parties previously notified that the eme ended.	rgency has
 Ensure the proper regulatory authorities/agencies are no incident (refer to Section V: Emergency Call List).	tified of the
 Clean up the site. (Be sure all contractor crews have had HAZWOPER training.)	d appropriate



# 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** 

Safety Equipment 432.400.2889

**Gryphon Oilfield Services** 

Safety Equipment 432.550.0600

DXP/ Safety International - Odessa, Tx.

 $H_2S$  monitors 432.580.3770

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

**H2S Specialist** 

Total Safety US Odessa, Tx/ Hobs, NM

H<sub>2</sub>S monitors

432.561.5049 Odessa
575.392.2973 Hobbs

Breathing air includes cascade systems

First aid and medical supplies

Safety equipment

DXP/ Indian Fire & Safety – Hobbs, NM 575.393.3093

H<sub>2</sub>S monitors

Breathing air including cascade systems trailer mounted

30 minute air packs

Safety Equipment

TC Safety – Odessa, Tx.

 $H_2S$  monitors 432.413.8240

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<sub>2</sub>S 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 <u>Entrance Warning Sign</u> 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 <u>Audible</u> warning system located on rig floor
- 2 <u>Visual</u> 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 <u>size large</u>, 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 – <u>Tri or Quad gas monitor</u> 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 <u>priority</u> 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	432.688.6878	940.231.2839
Patrick Wellman	432.688.9183	432.215.7079
Safety Support:		
Matt Oster	830.583.1245	601.540.6988
Ryan Vaccarella	985.217.7594	NA
Operations Support:		
Dale Rowell	NA	830.400.2006
Supt Operations-SENM		
Mike Neuschafer-Delaware Basin	432.688.6834	713.419.9919
Sean Robinson-SENM	575.391.3147	575.390.8873
MCBU HSE Permian Supervisor		
Chris Boggs	432.688.6806	907.903.5815
Manger GCBU/MCBU D & C		
Seth Crissman	832.486.6191	832.513.9308

# **EMERGENCY CALL LIST: State Officials**

# **Regulatory Agencies**

Texas Railroad Commission (District 8)

Midland, Texas

Office: 432.684.5581

**New Mexico Oil Conservation Commission** 

P. O. Box 1980

Hobbs, New Mexico 88240-1980

Office: 575.393.6161

**Bureau of Land Mngt.** 

Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220 Office: 575.234.5972 Fax: 575.885.9264

# **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 <u>only with facts</u>, 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. <u>Public Notification</u> – If the escape of gas could result in a hazard to area residents, the general public, or employees, the person <u>first</u> observing the leak should take <u>immediate</u> 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<sub>2</sub>S. 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