District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720				ew Mexico d Natural Res tion Division		BSOCB□AN	Form C-101 Revised July 18, 2013
District 111 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				t. Francis Dr.	_	3 0 2015	$\langle D \rangle$
APPLICATION FOR			RE-ENTER	R, DEEPEN,	REC PLUGBAC	EVED K, OR ADD) A ZONE
ConocoPhillips Company 600 N. Dairy Ashford Rd Houston, Texas 77079 * Property Code	¹ . Operator Name		Property Name		30-025- /	² OGRID Number 217817 3 API Number 3 7/6 . We	II No.
31172	Eas	st Vacuum Gr	ayburg San And	res Unit 2721			527 N
· · · · · · · · · · · · · · · · · · ·	<u>.</u>	^{7.} St	urface Location	1			
UL - Lot Section Township N 27 17S	Range 35E	Lot Idn	Feet from 1168	N/S Line South	Feet From 2141	E/W Line West	County Lea
		* Propos	ed Bottom Hol	e Location			
UL - Lot Section Township N 27 17S	Range 35E	Lot Idn	Feet from 1015	N/S Line . South	Feet From 2250	E/W Line West	County Lea
		^{9.} Pc	ol Information]			
	acuum; Grayb		Name S				Pool Code 62180

			autonal wen mormation		
^{11.} Work Type	12.	Well Type	^{13.} Cable/Rotary	14. Lease Type	^{15.} Ground Level Elevation
New Well		I	Rotary	State	3938' GL
¹⁶ Multiple	^{17.} Pro	oposed Depth	^{18.} Formation	19. Contractor	^{20.} Spud Date
N	5098' M	D/5090' TVD	Grayburg/San Andres		12/01/2015
Depth to Ground water		Distance fror	n nearest fresh water well	Distan	ce to nearest surface water

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

^{21.} Proposed Casing and Cement Program

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12.25"	8.625"	24	1620 '	875	0'
Production	7.875"	5.50"	15.5	5080'	735	0'
				•		

Casing/Cement Program: Additional Comments

Production csg cement volumes may be adjusted based on log results. External packer (TDAP) is an option between surf and production casing, set at \sim 250' shallower than previous casing shoe. Cement to be pumped in one stage.

^{22.} Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
Annular/Double Ram	3000/3000	Annular 70% or 2100 /3000 Dbl Ram	Shaffer/Shaffer

best of my knowledge and belief.	given above is true and complete to the	OIL CONSERVATION DIVISION	
I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable.		Approved By:	
Signature: Susan B.M	aunder	Manty	
Printed name: Susan B. Maunder		Title: Petroleum Engineer	
Title: Sr. Regulatory Specialist		Approved Date: 08/01/15 Expiration Date: 08/01/17	
E-mail Address: Susan.B.Maunder@conocophillips.com			
Date: 7 27/15	Phone: 281-206-5281	Conditions of Approval Attached	

CONDITIONS OF APPROVAL

API #	Operator	Well name & Number
30-025-42716	CONOCOPHILLIPS COMPANY	EAST VACUUM (GSA) UNIT # 527

Applicable conditions of approval marked with XXXXXX

Administrative Orders Required

XXXXXXXX	Will require administrative order for injection or disposal prior to injection or disposal	
Other wells		

Drilling

XXXXXXX	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Casing

XXXXXXX	SURFACE CASING - Cement must circulate to surface
XXXXXXX	PRODUCTION CASING - Cement must circulate to surface
XXXXXXXX	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
	South Area
XXXXXXXX	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water

Completion & Production

XXXXXXX	Must notify Hobbs OCD office prior to conducting MIT (575) 393-6161 ext. 114
XXXXXXXX	Must conduct & pass MIT prior to any injection

Lost Circulation

XXXXXXXX	Must notify OCD Hobbs Office if lost circulation is encountered at 575-370-3186

Stage Tool

XXXXXX	Must notify OCD Hobbs Office prior to running Stage Tool at 575-370-3186
XXXXXXXXX	If using Stage Tool on Surface casing, Stage Tool must be greater than 350' and a minimum 200 feet above surface shoe.
XXXXXXXXX	When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.

Planning Report

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Database:	Dbase	Nov0914	1	Local Co-or	rdinate Refer	ence: \	Nell Well 2721	-W527	
Company:	Conoce	Phillips		TVD Referen	1 A.			@ 3951.00usft	(PD 194)
Project:	Lea Co	unty, New Mexico)	MD Referen				@ 3951.00usft	
Site:	East Va	acuum GBSA Unit		North Refer			Grid	•	, ,
Nell:	Well 27	21-W527			culation Meth		Minimum Curva	ature	
Nellbore:	Origina			,					
Design:	rev1				•				
Design.	Construction of the second sec	- 'auni is ann an ann an Arth	administration and a second		*****		andrestado i no su pueto po se	areas a transmission	
Project	Lea Cou	inty, New Mexico	ngganga kana ngaya ana ana ana an 1 Mangganga kana ngaya ngangangangangangangangangangangangangan		n a na mananan a na Mangan mangan sa	، مرد می ماه میدید برد می از معاد ۱۹۹۶ - ۲۰۰۶ ۱۹۹۰ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹ ۱۹۹۰ - ۲۰۰۹ - ۲۰۰۹ - ۲۰۰۹	lang gang sana sa		م من من من مربع م مان مان م من م م م م م م م م م م م م م م م م م
Map System:	US State	Plane 1927 (Exac	t solution)	System Datur	m:	Me	an Sea Level		
Geo Datum:	NAD 192	7 (NADCON CON	US)						
Map Zone:	New Mex	ico East 3001							
Site	East Va	cuum GBSA Unit	· · · · · · · · · · · · · · · · · · ·						· · ·
Site Position:			Northing:	652,84	41.86 usft	Latitude:			32° 47' 30.449677
From:	Мар		Easting:	764,63	33.16 usft	Longitude:			103° 28' 19.901020 V
Position Uncerta	ainty:	0.00 us	-			Grid Converg	ence:		0.47
Well	Well 272	1-W527	ang dan bernang mengenakan kerang mengenakan dan bernang mengenakan dan bernang mengenakan bernang mengenakan Anal	a a a a a a a a a a a a a a a a a a a		anganangan sangan s		ar a a a a a a a a a a a a	an in a subset of the second sec
Well Position	+N/-S	3,644.58 u	sft Northing:		656,486.44	insfi Isti	tude:		32° 48' 5.869473
			an norunny.		000,400.44		luue.		32 40 3.003473
Wen Postson		·	-		770 474 75				4000 001 47 TOCTOO 1
	+E/-W	7,838.59 u	. •		772,471.75		gitude:		103° 26' 47.725726 \
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Position Uncerta	+E/-W ainty Origina	7,838.59 u 0.00 u	. •	tion: Declinatic (°)			und Level:		3,937.00 us
Position Uncerta	+E/-W ainty Origina Moc	7,838.59 u 0.00 u I hole	sft Wellhead Eleva	Declinatio		Gro Dip A	und Level:	Fiéld S	3,937.00 us
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Position Uncerta Wellbore Magnetics Design Audit Notes: Version: Vertical Section	+E/-W ainty Origina Moc	7,838.59 u 0.00 u I hole Jel Name User Defined Dept	sft Wellhead Eleva Sample Date 4/22/2014 Phase: h From (TVD) (usft)	Declinatic (°) PLAN +N/-S (úsft)	on 7.34 Tie +E/ (us	Gro Dip A (° On Depth: W	und Level: ngle) 60.66	Field S (r 0.00 rection	3,937.00 us strength 17)
Position Uncerta Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth	+E/-W ainty Origina Moc rev1	7,838.59 u 0.00 u I hole del Name User Defined Dept Azimuth	sft Wellhead Eleva Sample Date 4/22/2014 Phase: h From (TVD) (usft) 0.00 ortical Depth +N/-S	Declinatic (°) PLAN .+N/-S (usft) 0.00 +E/-W	on 7.34 Tie +E/ (us 0.0	Gro Dip A (° On Depth: -W fft) D0 Build Rate	und Level: ngle) 60.66 Din 1 Turn Rate	Field S (r 0.00 rection (*) 43.98	3,937.00 us
Position Uncerta Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth	+E/-W ainty Origina Moo	7,838.59 u 0.00 u I hole del Name User Defined Dept Dept	sft Wellhead Eleva Sample Date 4/22/2014 Phase: h From (TVD) (usft) 0.00	Declinatic (°) PLAN +N/-S (usft) 0.00 +E/-W	on 7.34 Tie +E/ (us 0.0	Gro Dip A (° Con Depth: W sft) 200 Build	und Level: ngle) 60.66 Din 1	Field S (r 0.00 rection (°) 43.98	3,937.00 us strength 17)
Position Uncerta Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft)	+E/-W ainty Origina Moc rev1	7,838.59 u 0.00 u I hole Jel Name User Defined Dept Azimuth (°) (sft Wellhead Eleva Sample Date 4/22/2014 Phase: h From (TVD) (usft) 0.00 ortical Depth +N/-S (usft) (usft)	Declinatio (°) PLAN +N/-S (usft) 0.00 +E/-W (usft) (on 7.34 Tie +E/ (us 0.(Dogleg Rate (°/100usft)	Gro Dip A (° Con Depth: 	und Level: ngle) 60.66 Din 1 Turn Rate (°/100usft)	0.00 rection (°) TFO (°)	3,937.00 us
Position Uncerta Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00	+E/-W ainty Origina Moc rev1	7,838.59 u 0.00 u l hole del Name User Defined Dept Azimuth (°) (0.00	sft Wellhead Eleva Sample Date 4/22/2014 Phase: h From (TVD) (usft) 0.00 Prtical Depth +N/-S (usft) (usft) 0.00 0.00	Declinatio (°) PLAN +N/-S (usft) 0.00 +E/-W (usft) (0.00	on 7.34 Tie +E/ (us 0.0 Dogleg Rate (*/100usft) 0.00	Gro Dip A (° On Depth: -W fft) 00 Build Rate (°/100usft) 0,00	und Level: ngle) 60.66 Din 1 Turn Rate (°/100usft) 0.00	0.00 rection (°) TFO (°) 0.00	3,937.00 us
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Position Uncerta Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth (usft) 0.00	+E/-W ainty Origina Moc rev1	7,838.59 u 0.00 u 1 hole del Name User Defined User Defined Cept Azimuth (°) (0.00 0.00 143.98	sft Wellhead Eleva Sample Date 4/22/2014 Phase: h From (TVD) (usft) 0.00 Prtical Depth +N/-S (usft) (usft) 0.00 0.00	Declinatio (°) PLAN +N/-S (usft) 0.00 +E/-W (usft) (0.00	on 7.34 Tie +E/ (us 0.0 Dogleg Rate (*/100usft) 0.00	Gro Dip A (° On Depth: -W fft) 00 Build Rate (°/100usft) 0,00	und Level: ngle) 60.66 Din 1 Turn Rate (°/100usft) 0.00	Field S (r 0.00 rection (°) 43.98 TFO (°) 0.00 0.00 0.00 143.98	3,937.00 us

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Planning Report

Database:	Dbase Nov0914		Local Co-ordinate Reference:	Well Well 2721-W527	
Company:	ConocoPhillips		TVD Reference:	RKB=3937+14 @ 3951.00usft (PD 194)	
Project:	Lea County, New Mexico		MD Reference:	RKB=3937+14 @ 3951.00usft (PD 194)	ري
Site:	East Vacuum GBSA Unit		North Reference:	Grid Children Children	
Well:	Well 2721-W527		Survey Calculation Method:	Minimum Curvature	
Wellbore:	Original hole			Sec. 1	
Design:	rev1		· · · ·		
Planned Survey		n han se	and an analysis for the second production of the second second second second and the second	a de la composición de la composición de la composición de la composición de la composición de la c	

Measured		1.1. L	Vertical		12.1	Vertical	Dogleg	Build	Tum
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (úsft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00 600.00	0.00 0.00	0.00 0.00	500.00 600.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	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
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,595.00	0.00	0.00	1,595.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler		0.00	1,000,00	. 0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,695.00	0.00	0.00	1,695.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		2,300,00						
2,300.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 1	the second se		· · · · · · · · · · · · · · · · · · ·	0.74	0.54	0.07			
2,700.00	1.00	143.98	2,699.99	-0.71	0.51	0.87	1.00	1.00	0.00
2,730.01	1.30	143.98	2,730.00	-1.19	0.87	1.47	1.00	1.00	0.00
Tansil . 2,800.00	2.00	143.98	2,799.96	-2.82	2.05	3.49	1.00	1.00	0.00
2,860.00	2.60	143.98	2,860.00	-2.82	3.47	5.90	1.00	1.00	0.00
Yates	2.00 	, 10.00	2,000.00		0.77		· · · · ·		1. A.
	3.00	142.00	2 200 20	0.05	4 60	7 95	1.00	4.00	0.00
2,900.00	3.00	143.98	2,899.86	-6.35	4.62	7.85	1.00	1.00	0.00
3,000.00	4.00	143.98	2,999.68	-11.29	8.21	13.96	1.00	1.00	0.00
3,078.94	4.79	143.98	3,078.38	-16.18	11.76	20.01	1.00	1.00	0.00
•	tangent section		· *	2				¢	a se a conserva
3,100.00	4.79	143.98	3,099.37	-17.60	12.80	21.76	0.00	0.00	0.00
3,135.76	4.79	143.98	3,135.00	-20.02	14.55	24.75	0.00	0.00	0.00
Seven River		140.09	2 100 00	24.26	47 74	20.11	0.00	0.00	
3,200.00	4.79	143.98	3,199.02	-24.36	17.71	30.11	0.00	0.00	0.00
3,300.00	4.79	143.98	3,298.67	-31.11	22.62	38.46	0.00	0.00	. 0.00
3,400.00	4.79	143.98	3,398.32	-37.86	27.53	46.81	0.00	0.00	0.00
3,500.00	4.79	143.98	3,497.97	-44.62	32.44	55.16	0.00	0.00	0.00
3,600.00	4.79	143.98	3,597.62	-51.37	37.35	63.51	0.00	0.00	0.00
3,686.68	4.79	143.98	3,684.00	-57.22	41.60	70.75	0.00	0.00	0.00
Queen		ي -د ر	2				~	· · 2 · 2 · · ·	1977 - 19
3,700.00	4,79	143.98	3,697.27	-58.12	42.25	71.86	0.00	0.00	0.00

Planning Report

Database:	Dbase Nov0914	Local Co-ordinate Reference:	Well Well 2721-W527
Company:	ConocoPhillips	TVD Reference:	RKB=3937+14 @ 3951.00usft (PD 194)
Project:	Lea County, New Mexico	MD Reference:	RKB=3937+14 @ 3951.00usft (PD 194)
Site:	, East Vacuum GBSA Unit	North Reference:	Grid
Well:	Well 2721-W527	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	rev1		

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)		+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.00	4.79	143.98	3,796.92	-64.88	47.16	80.21	0.00	0.00	0.00
3,900.00	4.79	143.98	3,896.58	-71.63	52.07	88.56	0.00	0.00	0.00
4,000.00	4.79	143,98	3,996.23	-78.38	56.98	96.91	0.00	0.00	0.00
4,043.93	4.79	143.98	4,040.00	-81.35	. 59.14	100.58	0.00	0.00	0.00
Grayburg									
4,100.00	4.79	143.98	4,095.88	-85.14	61.89	105.26	0.00	0.00	0.00
4,200.00	4.79	143.98	4,195.53	-91.89	66.80	113.61	0.00	0.00	0.00
4,300.00	4.79	143.98	4,295.18	-98.64	71.71	121.96	0.00	0.00	0.00
4,355.01	4,79	143.98	4,350.00	-102.36	74,41	126.55	0.00	0.00	0.00
San Andres									
4,400.00	4.79	143.98	4,394,83	-105.40	76.62	130.31	0.00	0.00	0.00
4,500.00	4.79	143.98	4,494.48	-112.15	81.53	138.65	0.00	0.00	0.00
4,600,00	4.79	143.98	4,594,13	-118.90	86,44	147.00	0.00	0.00	0.00
4,700.00	4.79	143.98	4,693,78	-125.66	91.35	155.35	0.00	0.00	0.00
4,800.00	4.79	143.98	4,793,43	-132.41	96.26	163.70	0.00	0,00	0.00
4,900.00	4.79	143.98	4,893.08	-139.16	101.17	172.05	0.00	0.00	0.00
5,000.00	4.79	143.98	4,992.73	-145.92	106.08	180.40	0.00	0.00	0.00
5,097.61 PBHL/TD	4.79	143.98	5,090.00	-152.51	110.87	188.55	0.00	0.00	0.00
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- hit/miss target - Shape	Dip Angle (°)		VD +N/-S sft) (usft)	+E/-W (usft)	Northing (usft)		· · · · · · · · · · · · · · · · · · ·	Latitude	Longitude
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/ GBSU 2721-W527 F - plan hits target ce		0.00 5,0	090.00 -152.5 ,	i1 110.87	656,33	33.93 77.	2,582.62 32	° 48' 4.351297 N	l 103° 26' 46.441896

Name

1,625.00 8 5/8" Suf Casing @ 1625 TVD

(usft)

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(usft)

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12-1/4

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8-5/8

Planning Report

Database: Company: Project: Site: Well:		East Vacu Well 2721	illips y, New Mexi um GBSA Ur W527			• · • •. • · • • • • • • • • • • •	Local Co-ordinate I TVD Reference: MD Reference: North Reference: Survey Calculation	14. 14. P.	RKB=3 RKB=3 Grid	, in the second s	3951.00usft (PD 3951.00usft (PD	
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		695.00	1,695.00	Salado						0.00		
		730.01	2,730.00	Tansil						0.00		
	2	860.09	2,860.00	Yates						0.00		
	3	135.76	3,135.00	Seven Rive	ers					0.00		
	3	686.68	3,684.00	Queen						0.00		
	4	043.93	4,040.00	Grayburg						0.00		
	4	355.01	4,350.00	San Andres	3					0.00		

TDAP

(Thermally Deformable Annulus Packer)

The TDAP is a tool developed by BiSN Oil Tools which serves the same function as a traditional inflatable annulus casing packer. The tool has been developed to specifically target wells prone to annulus gas migration.

Composition:

- Tool is made of a bismuth, tin, and lead alloy
- Has a low melting temperature of ~190°F
- Unaffected by H₂S, CO₂, HCl
- Expands during solidification, ensuring a tight metal-to-metal seal
- Has cement ports to allow cement to be pumped through the tool
- Springs contained on the inside and outside of tool, which when the tool is melted, break the channels of cement through the tool

Seals:

- Rubber seals on the inside create positive seal on production casing
- Rubber seals on the outside create positive seal against inside of surface casing
- Seals have been tested for effectiveness on straight pipe with no joints, as well as over the gap in pipe with a joint (representing a connection in the surface casing)
- Outside seals still create a vacuum after being run through the equivalent of 7,200'+ of smooth casing and 1560+ connection gaps (representing the number of connections in 60,000' of casing)

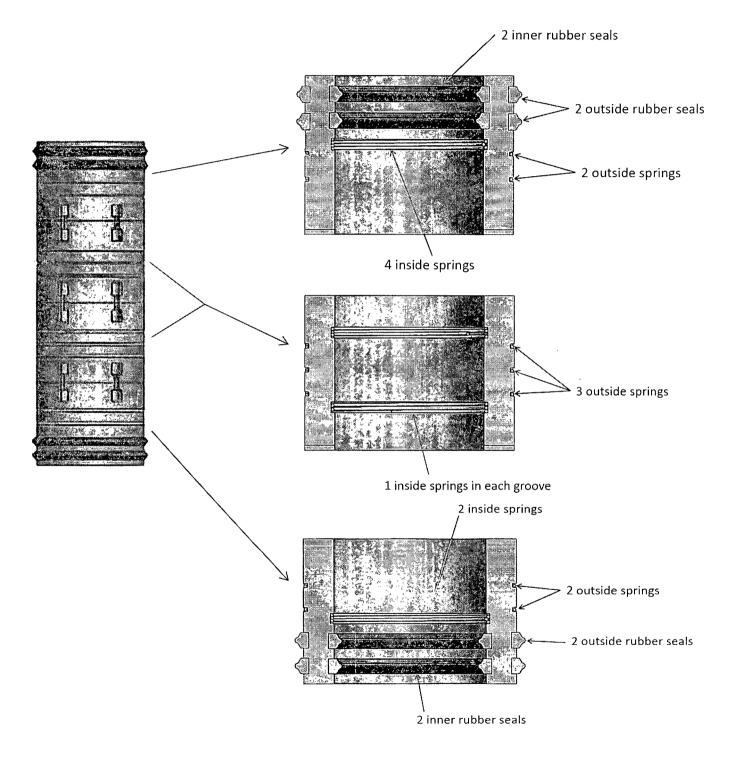
Heater:

- Wireline conveyed
- Composed of a thermite mixture with a 10-30 minute heating time
- Initiated by a voltage applied to a nickel resistor igniter

Running Procedure:

- Joint containing the tool is made up to the casing string and run downhole with centralizers immediately above and below the tool
- Tool is positioned in the surface casing by production casing annulus
- Cement job is performed and cement flows through the tool during displacement
- After the well is completed, the drilling rig moves off location
- After the cement is set and prior to completions activity (days after rig release), the heater is lowered on wireline to the position of the tool
- The heater is ignited, melting the tool
- The springs contained in the tool are released, breaking the cement channels

- The heater expends all it's fuel and cools
- The heater is brought back to surface and the melted tool cools, forming a true metal-to-metal, gas-tight seal in the casing by casing annulus



ConocoPhillips Company Well: EVGBSAU #527W Location: Section 27, T17S, R35E Date: 7/16/2015

ConocoPhillips proposes the following plan for design, operating and maintenance, and closure of our proposed closed loop system for the above named well:

1. We propose to use a closed loop system with steel pits, haul-off bins, and frac tanks for containing all cuttings, solids, mud, water, brine, and liquids. We will not dig a pit, use a drying pad, build an earthen pit above ground level, nor dispose of or bury any waste on location.

All drilling waste and all drilling fluids (fresh water, brine, mud, cuttings, drill solids, cement returns, and any other liquid or solid that may be involved) will be contained on location in the rig's steel pits or in hauloff bins or frac tanks as needed. The intent is as follows:

- We propose to use the rig's steel pits for containing and maintaining the drilling fluids.
- We propose to remove cuttings and drilled solids from the mud by using solids control equipment and to contain such cuttings and drilled solids on location in haul-off bins.
- We propose that any excess water that may need to be stored on location will be stored in tanks.

The closed loop system components will be inspected daily during each tour and any necessary repairs will be made immediately. Any leak in the system will be repaired immediately, any spilled liquids and/or solids will be cleaned immediately, and the area where any such spill occurred will be remediated immediately.

2. Cuttings and solids will be removed from the location in haul-off bins by an authorized contractor and disposed of at an authorized facility. For this well, we propose the following disposal facility:

R-360 Inc. 4507 West Carlsbad Hwy, Hobbs, NM 88240, P.O. Box 388; Hobbs, New Mexico 88241 Phone Number: 575.393.1079

The physical address for the plant where the disposal facility is located is Highway 62/180 at mile marker 66 (33 miles East of Hobbs, NM and 32 miles West of Carlsbad, NM).

The Permit Number for R-360 is NM1-006.

A photograph showing the type of haul-off bins that will be used is attached.

- 3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
- 4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - Nabors Well Services Company, 3221 NW County Rd, Hobbs, NM 88240; P.O. Box 5208 Hobbs, NM, 88241, Phone Number: 575.392.2577; Permit SWD 092.
 - Basic Energy Services, 2404 W Texas Ave, Eunice, NM 88231; P.O. Box 1869, Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.
 - C & C Transport, LLC, P.O. Box 1352, Hobbs, NM 88241 Phone Number: 575.393.0422
 - Sundance Services, Inc., P.O. Box 1737 Eunice, NM 88231 Phone Number: 575.394.2511

Cord Denton Drilling Engineer, ConocoPhillips Company Phone: (281) 206-5406 Cell: (832) 754-7363

SPECIFICATIONS

FLOOR: 3/16" PL one pièce CROSS MEMBER: 3 x 4 1 channel 16" on Center-

center WALLS: 3/16" PL solid welded with tubing top, insi de liner hooks DOOR 3/16" PL with tubing frame FRONT: 3/16" PL slant formed' PICK U.P. Standard cable with 2" x 6" x 1/4" rails, guisset at each crossmember WHEELS: 10 DIA x 9 long with rease fittings DOOR LATCH: 3 Independent ratchet bingers with chains, vertical second latch GASKE TS: Extruded rubber seal with metal retainers

WELDS: All welds continuous except substructur e crossmembers

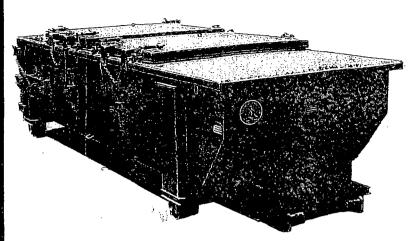
FINISH: Coated inside and out with direct to metal, r ust inhibiting acrylic enamel color coat HYDROTESTING: Full capacity static test DIMEN SIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height OPTIONS: Steel grit blast and special paint, Amplifoll, Heil and Dino pickup ROOF 3/16" PL roof panels with tubing and

channel support frame LIDS: (2) 68" x 90" metal rolling lids spring loaded, self raising ROLLERS: 4" V-groove rollers with delrin

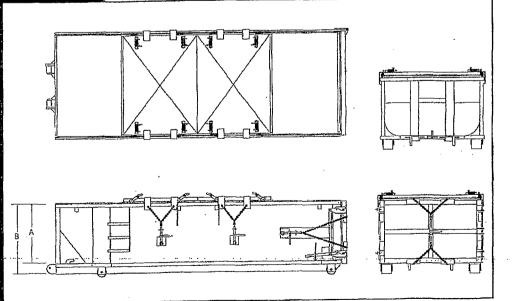
bearings and grease fittings OPENING: (2) 60st x 82st openings with 8st divider centered on

contain er LATCH:(2) independent ratchet, binders with chains per lid GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	A	B
20 YD	41	53
25 YD	53	65
30 YD	65	77



31



H₂S Contingency Plan

H₂S Contingency Plan Holders:

Attached is an H₂S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any questions regarding this plan, please call Jet Brown at ConocoPhillips Company, 432.688.6849.

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. Public Notification/Evacuation

VIII. Forms/Reports



HYDROGEN SULFIDE (H₂S) 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 the H_2S release. Release of H_2S must be reported to the Drilling Superintendent and documented on the IADC report 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 in which the 100 ppm radius of exposure is greater than 50' yet less than 3000' and does not include a public area, and in which the 500 ppm radius of exposure 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 <u>ensure your own safety</u>.

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 H₂S radius of exposure (ROE). All manned barricades must be equipped with an H₂S 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

On-Scene Incident Command Post Public Relations Briefing Area Staging Area Triage Area Decontamination Area (Cold Zone) (Cold Zone) (Cold Zone) (Cold Zone) (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 H₂S 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 <u>Responsibility</u>

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 to ensure 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 which the Drilling Rep. becomes incapacitated.
- 3. Advise each contractor, service company, and all others entering the site that H2S may be encountered and of 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. The COPC Drilling Rep. 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

<u> DXP Safety International – Odessa, TX</u>	
H ₂ S monitors	432.580.3770
Breathing air including cascade systems	
First aid and medical supplies	
Safety equipment	
H2S Specialist	
-	
	122 550 0 (00

432.550.0600

EnerSafe Inc. – Odessa, TX H₂S monitors (personal and fixed) Breathing air including cascade systems First aid and medical supplies Safety equipment

Indian Fire & Safety – Hobbs, NM

H₂S monitors Breathing air including cascade systems (trailer mounted) 30 minute air packs Safety Equipment 575.393.3093

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 -<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 Audible 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 Rep's office

Note:

- 1. All SCBA's must be <u>positive pressure</u> type only.
- 2. All SCBA's must be either <u>Scott or Drager</u> brand.

3. All SCBA's face pieces should be <u>size large</u>, unless otherwise specified by the Drilling Supervisor.

5 – <u>Emergency Escape Packs</u> 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 Rep's office. This will be used to determine if the work area is 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.	Home	Cellular
Sam Hyden	432.688.9163	432.561.9958	432.557.1999
Permian Drilling Supt.			
Tim Garrett	432.688.9057		505.330.5638
Jerry Moore	432.688.9057		806.683.6852
Terry Brumley	432.688.6850		432.238.9069
Permian Drilling Field Supt.			
Jet Brown	432.688.6849		432.638.0509
WSER	-		
R.E. (Gene) True	432.688.9050	281.546.1034	281.217.8492
Operations Manager, Permian			
Conventional Asset			
Kyle O'Dell	432.688.9051		432.250.4912
Safety and Environmental Coordinator			
Gene Schwall	281.206.5159	281.579.2914	713.301.7590
Drilling Mngr.			
_			

EMERGENCY CALL LIST: State Officials

Regulatory Agencies

Texas	Railroad	Commission

512.463.6838 24 Hour Emergency: 512.463.6788

1701 N. Congress Austin, TX 78701

<u>New Mexico Oil Conservation Commission</u>

Office: 575.393.6161

P. O. Box 1980 Hobbs, New Mexico 88240-1980

Bureau of Land Management

Carlsbad Field Office	Office:	575.234.5972
620 E. Greene St.	Fax:	575.885.9264
Carlsbad, NM 88220	BLM 24 Hr on call # Lea County:	575-393-3612

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)

ConocoPhillips Emergency Call List and Location Information Sheet

ConocoPhillips- 281-293-3600

Drilling Superintendent	Sam Hyden	Office: 432-688-9163
		Cell: 432-557-1999
Safety (WSER)	Jet Brown	Office: 432-688-6849
		Cell: 432-638-0509
Drilling Engineer	Cord Denton	Office: 281-206-5406
		Cell: 832-754-7363
	Stephanie Basse	Office: 281-206-5239
		Cell: 832-231-1159
	Nancy Luo	Office: 281-206-5280
		Cell: 281-546-8154
Regulatory Contact	Susan Maunder	Office: 432-688-6913
		Cell: 432-269-4378

Emergency Numbers

Hospital: Lea Co. Regional Medical Center (Hobbs)	575-492-5000
Ambulance: Hobbs Fire Dept.	
Air Ambulance: Care Star	
Aero Star	800-627-2376
Fire Dept. (Hobbs)	
(Maljamar non-emerg)	
State Police (Artesia)	
(Hobbs)	
Sheriff (Lovington)	
Police (Lovington)	
NMOCD	
(Emerg)	
BLM Switchboard	
BLM 24 Hr on Call, Lea County	
New Mexico Emergency Response Comm (Santa Fe)	
New Mexico State Emerg Ops Ctr	505-476-9635
National Emergency Response Center	

Number of Residences within 1 mile of Well: There are no residences within one mile of the well to be drilled.

VI. Public Media Relations

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

The Public Information Officer confers with Houston Office's Human Relations Representative, who is responsible for assisting in the coordination of local public relations duties.

If you are the Public Information Officer, answer media questions honestly and <u>only with</u> <u>facts</u>, do not speculate about the cause, amount of damage, or the potential impact of the incident on the community, company, employees, or environment. (This information will be formally determined in the incident investigation.)

If you are not 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 is."
- "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.

Alert and/or Evacuate People within the Exposure Area

<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.

Evacuation Procedures – Evacuation will proceed upwind from the source of the release of H₂S. 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

EVGSAU #527W.