u ,			bha			ATS-14	-422	-
Form 3160-3 (March 2012)			HOBBS	ocd	FOR OMB Expires	M APPROV No. 1004-01 October 31.	ED 37 2014	
	UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	S INTERIOR NAGEMENT	DECO	3 2014	5. Lease Serial No. NMLC 0294	405B		
APPLIC	ATION FOR PERMIT TO	DRILL OR REEN	TER REC	EIVED	6. If Indian, Allote N/A	e or Tribe	Name	5)
la. Type of work: XDR	ILL REENT	ER		-	7 If Unit or CA Ag N/A	reement, N	ame and $\int \sigma$	No.
lb. Type of Well: X Oil	Well Gas Well Other	Single Zone	X Multip	ple Zone	8. Lease Name and Ruby Federal	Well No.	10	09 , 56
2. Name of Operator ConocoPhillips Cor	npany (217817)				9. API Well No. 30-025- 4	229	6	
3a. Address 600 N. Dairy P10-4-4054 Houston TX	Ashford Rd, Office	3b. Phone No. (include a. (281)206-5281	rea code)		10. Field and Pool, or Maljamar; Yes	Explorator so West	×/44	-400
4. Location of Well <i>(Report la</i> At surface UL P, Sec.	ication clearly and in accordance with an 18, T17S, R32E; 1026' FSL	ty State requirements.*) and 477' FEL			11. Sec., T. R. M. or Sec. 18, T17S	Blk. and Su , R32E	rvey or A	rea
At proposed prod. zone U 14. Distance in miles and directi Approximately 3 mil	L P, Sec. 18, T17S, R32E; 99 on from nearest town or post office*	90' FSL and 330' FI	EL		12. County or Parish		13. Stat	.e
 Approximatery 5 minutery Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit lin 	Approximately 3 miles south of Maljamar, New Mexico distance from proposed* 330' iscation to nearest toperty or lease line, ft. Also to nearest drig, unit line, if any) 16. No. of acres in lease 1601.96				g Unit dedicated to this	well		
 Distance from proposed loca to nearest well, drilling, com applied for, on this lease, ft. 	tion* 130' pleted,	130' 19. Proposed Depth 20. BLM/ d, 6965' TVD/6968' MD ES008						
21. Elevations (Show whether 1 3981'	DF, KDB, RT, GL, etc.)	22 Approximate date w 10/01/2014	ork will star	t*	23. Estimated duration 7 days	חנ		
		24. Attachments		•				
 Well plat certified by a registe A Drilling Plan. 	rdance with the requirements of Onshor red surveyor.	re Oil and Gas Order No.1, 4. Bond Item 2	, must be att to cover th 20 above).	tached to thi e operatior	s form: .s unless covered by ar	n existing b	ond on f	ile (see
3. A Surface Use Plan (if the l SUPO must be filed with the	ocation is on National Forest System 1 appropriate Forest Service Office).	Lands, the 5. Opera 6. Such BLM	ator certifica other site s l.	ation specific info	rmation and/or plans a	s may be re	quired by	y the
25. Signature Swam	B. Maunder	Name (Printed/Ty) Susan B. Ma	<i>ved)</i> under			Date 3	04/i	4
Senior Regulatory S	pecialist	· ······						•
Approved by (Signature)	e Caffey	Name (Printed/Typ	ped)			NOV	24	2014
FIELD N	MANAGER	Office	CAF	RLSBAD	FIELD OFFICE			
Application approval does not wa conduct operations thereon. Conditions of approval, if any, and	arrant or certify that the applicant holds re attached.	s legal or equitable title to	those rights A	s in the subj	ectlease which would e	ntitle the a	ARS	.0
Title 18 U.S.C. Section 1001 and Ti States any false, fictitious or fraud	tle 43 U.S.C. Section 1212, make it a cri lulent statements or representations as to	ime for any person known o any matter within its juris	ngly and wi	illfully to ma	ake to any department o	or agency o	of the Un	ited
(Continued on page 2)			Kt	1.7	*(Inst	ructions	on pag	ge 2)
well Controlled Wate	r Basin		plo	3/14				

Approval Subject to General Requirements & Special Stipulations Attached SEE ATTACHED FOR CONDITIONS OF APPROVAL

DEL 0 4 2014

Operator Certification

HOBBS OCD

DEC 03 2014

CONOCOPHILLIPS COMPANY

RECEIVED

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application with bond coverage provided by Nationwide Bond ES0085. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Date: 2/10/

aunder

Susan B. Maunder Senior Regulatory Specialist

Drilling Plan ConocoPhillips Company <u>Maljamar; Yeso (west)</u>

HOBBS OCD

Ruby Federal #56

DEC 03 2014

Lea County, New Mexico

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1. Estimated tops of geological markers and estimated depths to water, oil, or gas formations:

The datum for these depths is RKB (which is 13' above Ground Level).

Formations	Top Depth FT TVD	Top Depths FT MD	Contents
Quaternary	Surface	Surface	Fresh Water
Rustler	710	710	Anhydrite
Salado (top of salt)	855	885	Salt
Tansill (base of salt)	1905	1905	Gas, Oil and Water
Yates	2040	2040	Gas, Oil and Water
Seven Rivers	2370	2370	Gas, Oil and Water
Queen	3000	3001	Gas, Oil and Water
Grayburg	3420	3421	Gas, Oil and Water
San Andres	3800	3801	Gas, Oil and Water
Glorieta	5270	5273	Gas, Oil and Water
Paddock	5350	5353	Gas, Oil and Water
Blinebry	5695	5698	Gas, Oil and Water
Tubb	6765	6768	Gas, Oil and Water
Deepest estimated perforation	6765	6768	Deepest estimated perf. is ~ Top of Tubb
Total Depth (maximum)	6965	6968	200' below deepest estimated perforation

All of the water bearing formations identified above will be protected by setting of the <u>8-5/8</u> surface casing <u>25' – 70' into the Rustler formation</u> and circulating of cement from casing shoe to surface in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

The targeted oil and gas bearing formations identified above will be protected by setting of the <u>5-1/2</u>" production casing <u>10' off bottom of TD</u> and circulating of cement from casing shoe to surface in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

2. Proposed casing program:

. (

Tuno	Hole Size	N	Interval ID RKB (ft)	OD) Wt (OD Wt		Conn	MIY	Col	Jt Str	Calcu	Safety Fa lated per Co Corporate (ctors onocoPhillips Criteria
Туре	(in)	From	То	(inches)	(lb/ft)		Conn	(psi)	(psi)	(klbs)	Burst DF	Collapse DF	Jt Str DF (Tension) Dry/Buoyant		
Cond	20	0	40' – 85' (30' – 75' BGL)	16	0.5" wali	В	Line Pipe	N/A	N/A	N/A	NA	NA	NA		
Alt. Cond	20	0	40' – 85' (30' – 75' BGL)	13-3/8	48#	H-40	PE	1730	740	N/A	NA	NA	ŅA		
Surf	12-1/4	0	735 - 780'	8-5/8	24#	J-55	STC	2950	1370	244	1.57	3.58	3.59		
Prod	7-7/8	0	6913' – 6958'	5-1/2	17#	L-80	LTC	7740	6290	338	2.12	2.51	1.98		

The casing will be suitable for H₂S Service. All casing will be new.

The surface and production casing will be set approximately 10' off bottom and we will drill the hole with a 45' range uncertainty for casing set depth to fit the casing string so that the cementing head is positioned at the floor for the cement job.

The production casing will be set 155' to 200' below the deepest estimated perforation to provide rathole for the pumping completion and for the logs to get deep enough to log the interval of interest.

Casing Safety Factors - BLM Criteria:

Туре	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	780	24	2950	1370	244000	8.5	8.56	3.97	13.0	15.0
Production Casing	6958	17	7740	6290	338000	10	2.14	1.74	2.86	3.37

Casing Safety Factors – Additional ConocoPhillips Criteria:

ConocoPhillips casing design policy establishes Corporate Minimum Design Factors (see table below) and requires that service life load cases be considered and provided for in the casing design.

ConocoPhillips Corporate Criteria for Minimum Design Factors

	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

ype onductor																
	Depth	WA F	MOY 55 3500	Col	Jt Str	Pipe Yield	NW 5	Burst	Cal	Ten						
uniace Casing (8-5/8" 24# J-55-STC)	78D	:	24 295	0 13	70 244000	361DD	0 8.5	1.5	л <u>а</u> .	95 5	.63					
reduction Casing (5-1/2" 17# L-80 LTC)	595 8	1	17 774	D 62	90 538000	39703	0 10	2.1	4 2	52 2	2.00					
Burst ConocoPhillips Required Load Cases																
The maximum internal (burst) load on the Surface Carring encurs when the surf	ince carries is :	ur baitei	1900 psi (a	s per 8114	Onshore Order	2 - OL Region	mar/2).									
The maximum internal (burst) load on the Productors Gaung accurs during the	trartere stanul	(2007)WD	nara tha mai	uran ali	owebie working (te atenta										
(MANY) is the protocological substance maps Corputing Contraction for a Surface Control Text Pressure >	1500	cs:			Final cleat Por	o Prazano al	TO (FFTDI =	6.5	Simo							
Surizce Rate: Waxing Pressure (BCPE) =	520D	E-1			Presided Prot	Gradient at St	co (CSFG) =	19.23								
Feic S/A =	1D	FP9														
Surface Casing Bunk Salety Factor - APIBurst Failing / Macmum Production Casing MKWF for the Fracture Standalian - AFI Burs	a Productad En a Fisting / Conj	ultana Pri porata M.	assura (MF) Irimum Bun	SP) OFF 1 SCENIGN	Mantraam Allow. Factor	ible Scritce F	nessura (MASP)									
urface Casing Burst Sale ty Factor:																
Case #1. MPSP (MWayd next section) =	780	х	0.052	x	10	-	405									
Case #2. MPSP (Field SW @ Buthead _{CSPC} + 230 psi) -	780	X	0.052	X	19.25	-	405	+	200	-	574					
Case #5. MPSP (Kick Vol @) next section TD) =	6968	X	0.052	X	8.55	-	517.8 ECE 8	-	345	-	215	r				
Case 43 & 44 Limited to MPSP (CSFG = 0.2 pso) =	780	x	0.052	x î	19.23	-	0.2	<u>,</u>	768							
MASP (MWhys + Test Pressure) -	780	x	0.052	x	. 8.5	+	150D	` _	1845							
Burst Salety Factor (Max, MPSP or MASP) -	2350	1	1845	-	1.60											
oduction Casing Burst Safety Factor:																
Gese #1. MPSP (MWard TD) =	6935	X	0.052	X	10	-	S518,15		1004							
Russ Saley Eachar (Mar. MDSP) -	7749	ž	3618		2.14	-	030.0	-	2030	•						
MAWP for the Fracture Stimulation (Corporate Criteria) -	774D	ż	1.15] -	6730											
Collapse - ConocoPhillips Required Load Cases	eurinea 118 au	-	to the most	C2722100 000	ilerete arti	aunost sarit.	dormun ihit		-0							
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oduction Casino Collapse Salety Factor:	1000	•		-												
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Tensial Strength - ConocoPhillips Required Load Cases																
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3. Proposed cementing program:

16" or 13-3/8" Conductor:

Cement to surface with rathole mix, ready mix or Class C Neat cement. (Note: The gravel used in the cement is not to exceed 3/8" diameter) TOC at surface.

8-5/8" Surface Casing Cementing Program:

The intention for the cementing program for the Surface Casing is to:

- Place the Tail Slurry from the casing shoe to 300' above the casing shoe,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry		Intervals Ft MD		Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	490' – 535'	13.6	300	510	2% Extender 2% CaCl ₂ 0.125 lb/sx LCM if needed 0.2% Defoamer Excess =75% based on gauge hole volume	1.70
Tail	Class C	490' – 535'	735' – 780'	14.8	200	268	1% CaCl2 Excess = 100% based on gauge hole volume	1.34

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Displacement: Fresh Water.

Note: In accordance with the Pecos District Conditions of Approval, we will Wait on Cement (WOC) for a period of not less than 18 hrs after placement or until at least 500 psi compressive strength has been reached in both the Lead Slurry and Tail Slurry cements on the Surface Casing, whichever is greater.

5-1/2" Production Casing & Cementing Program:

The intention for the cementing program for the Production Casing is to:

- Place the Tail Slurry from the casing shoe to a point approximately 200' above the top of the Paddock,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry	Inte Ft	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft³/sx
Lead	50:50 Poz/C	Surface	5200'	11.8	700	1820	10% Bentonite 5% Salt 0.2%-0.4% Fluid loss additive 0.125 lb/sx LCM if needed Excess = 220% or more if needed based on gauge hole volume	2.6
Tail	Class H	5200'	6913' 6958'	16.4	400	428	 0.2% Fluid loss additive 0.3% Dispersant 0.15% Retarder 0.2% Antifoam Excess = 100% or more if needed based on gauge hole volume 	1.07

Displacement: Fresh Water with approximately 250 ppm gluteraldehyde biocide.

5-1/2" Production Casing & Cementing Program – TXI/LW Cementing Option for Grayburg-San Andres:

ConocoPhillips Company respectfully requests an alternate option to our cementing program. This option will only be implemented in the cementing operation of wells requesting for co-mingling after approval and authorization by all agencies have been obtained. The intention for the alternative option to the cementing program for the Production Casing is to:

- Accommodate the additional frac'ing and stimulation of the Grayburg-San Andres by placement of the Tail Slurry from the casing shoe to the top of the Grayburg-San Andres formation,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry	Inter Ft	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	50:50 Poz/C	Surface	3000'	11.8	500	1300	10% Bentonite 8 lbs/sx Salt 0.2%-0.4% Fluid loss additive 0.125 lb/sx LCM if needed Excess = 200% or more if needed based on gauge hole volume	2.6
Tail	TXI/LW	3000'	6913' – 6958'	13.2	800	1120	0.5% Fluid loss additive 0.10% Retarder 0.2% Antifoam 0.125 lb/sx LCM if needed Excess = 150% or more if needed based on gauge hole volume	1.40

Displacement: Fresh Water with approximately 250 ppm gluteraldehyde biocide.

Proposal for Option to Adjust Production Casing Cement Volumes:

The production casing cement volume presented above are estimates based on gauge 7-7/8" hole. We will adjust these volumes based on the caliper log data for each well and our trends for amount of cement returns to surface. Also, if no caliper log is available for any particular well, we would propose an option to possibly increase the production casing cement volume to account for any uncertainty in regard to the hole volume.

4. Pressure Control Equipment:

A <u>11" 3M</u> system will be installed, used, maintained, and tested accordingly as described in Onshore Oil and Gas Order No. 2.

Our BOP equipment will be:

- o Rotating Head
- o Annular BOP, 11" 3M
- o Blind Ram, 11" 3M
- o Pipe Ram, 11" 3M

After nippling up, and every 30 days thereafter or whenever any seal subject to test pressure is broken followed by related repairs, blowout preventors will be pressure tested. BOP will be inspected and operated at least daily to insure good working order. All pressure and operating tests will be done by an independent service company and recorded on the daily drilling reports. BOP will be tested using a test plug to isolate BOP stack from casing. BOP test will include a low pressure test from 250 to 300 psi for a minimum of 10 minutes or until requirements of test are met, whichever is longer. Ram type preventers and associated equipment will be tested to the approved stack working pressure of 3000 psi isolated by test plug. Annular type preventers will be tested to 50 percent of rated working pressure, and therefore will be tested to 1500 psi. Pressure will be held for at least 10 minutes or until provisions of test are met, whichever is longer. Valve on casing head below test plug will be open during testing of BOP stack. BOP will comply with all provisions of Onshore Oil and Gas Order No. 2 as specified. **See Attached BOPE Schematic.** A variance is respectfully requested to allow for the use of flexible hose. The variance request is included as a separate enclosure with attachments.

5. Proposed Mud System:

The mud systems that are proposed for use are as follows:

DEPTH	TYPE	Density ppg	FV sec/qt	API Fluid Loss cc/30 min	рН	Vol bbl
0 – Surface Casing Point	Fresh Water or Fresh Water Native Mud in Steel Pits	8.5 - 9.0	28 – 40	N.C.	N.C.	120 – 160
Surface Casing Point to TD	Brine (Saturated NaCl ₂) in Steel Pits	10	29	N.C.	10 – 11	500 – 1000
Conversion to Mud at TD	Brine Based Mud (NaCl ₂) in Steel Pits	10	33 – 40	5 – 10	10 11	0 – 750

Gas detection equipment and pit level flow monitoring equipment will be on location. A flow paddle will be installed in the flow line to monitor relative amount of mud flowing in the non-pressurized return line. Mud probes will be installed in the individual tanks to monitor pit volumes of the drilling fluid with a pit volume totalizer. Gas detecting equipment and H2S monitor alarm will be installed in the mud return system and will be monitored. A mud gas separator will be installed and operable before drilling out from the Surface Casing. The gases shall be piped into the flare system. Drilling mud containing H2S shall be degassed in accordance with API RP-49, item 5.14.

In the event that the well is flowing from a waterflow, then we would discharge excess drilling fluids from the steel mud pits through a fas-line into steel frac tanks at an offset location for containment. Depending on the rate of waterflow, excess fluids will be hauled to an approved disposal facility, or if in suitable condition, may be reused on the next well.

No reserve pit will be built.

Proposal for Option to Not Mud Up at TD:

FW, Brine, and Mud volume presented above are estimates based on gauge 12-1/4" or 7-7/8" holes. We will adjust these volume based on hole conditions. We do not plan to keep any weighting material at the wellsite. Also, we propose an option to not mud up leaving only brine in the hole if we have good hole stability.

6. Logging, Coring, and Testing Program:

- a. No drill stem tests will be done
- b. Remote gas monitoring planned for the production hole section (optional).
- c. No whole cores are planned
- d. The open hole electrical logging program is planned to be as follows:
 - Total Depth to 2500': Resistivity, Density, and Gamma Ray
 - Total Depth to surface Casing Shoe: Caliper
 - Total Depth to surface, Gamma Ray and Neutron
 - Formation pressure data (XPT) on electric line if needed (optional)
 - Rotary Sidewall Cores on electric line if needed (optional)
 - BHC or Dipole Sonic if needed (optional)
 - Spectral Gamma Ray if needed (optional)

7. Abnormal Pressures and Temperatures:

- No abnormal pressures are expected to be encountered.
- Loss of circulation is a possibility in the horizons below the Top of Grayburg. We expect that normal Loss of Circulation Material will be successful in healing any such loss of circulation events.
 - The bottom hole pressure is expected to be 8.55 ppg gradient.
 - The expected Bottom Hole Temperature is 115 degrees F.
- See

 The estimated H₂S concentrations and ROE calculations for the gas in the zones to be penetrated are presented in the table below for the various producing horizons in this area:

FORMATION / ZONE	H2S (PPM)	Gas Rate (MCFD)	ROE 100 PPM	ROE 500 PPM
Grayburg / San Andres (from MCA)	14000	38	59	27
Yeso Group	400	433	34	15

ConocoPhillips will comply with the provisions of Oil and Gas Order # 6, Hydrogen Sulfide Operations. Also, ConocoPhillips will provide an H2S Contingency Plan (please see copy attached) and will keep this plan updated and posted at the wellsite during the drilling operation.

8. Anticipated starting date and duration of operations:

Well pad and road constructions will begin as soon as all agency approvals are obtained. Anticipated date to drill this well could be as early as mid-2014 after receiving approval of the APD.

Attachments:

- Attachment # 1 BOP and Choke Manifold Schematic 3M System
- Attachment # 2 Diagram of Choke Manifold Equipment

Contact Information:

Proposed 5 February 2014 by: Steven Herrin Drilling Engineer, ConocoPhillips Company Phone (281) 206-5115 Cell (432) 209-7558





Attachment # 2



- 10 Gate Valve, 2-1/16" 5M
- 11 Gate Valve, 3-1/8" 3M
- 12 Gate Valve, 2-1/16" 5M
- 13 Pressure Gauge
- 14 2" hammer union tie-in point for BOP Tester

We will test each valve to 3000 psi from the upstream side.

Submitted by: Støven Herrin Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company Date: 3-January-2014



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Company: C Project: L Site: F Well: F Wellbore: C Design: r	ConocoPhillips ea County, New Ruby Federal Ruby Federal 56 Driginal Hole ev0	Mexico				Local Co-o TVD Refere MD Refere North Refe Survey Cal Database:	ordinàte Reference; ence: ncce: rence: culation Method:	Well Ruby Federal 56 RKB=3981++13 @ 3994 RKB=3981++13 @ 3994 Grid Minimum Curvature EDM 5000,1 Ddatabase	.00usft () .00usft ()
Project	Lea C	ounty, New Mexico							
Map System: Geo Datum: Map Zone:	US State Plan NAD 1927 (NA New Mexico E	e 1927 (Exact solution) DCON CONUS) ast 3001				System Da	atum:	Mean Sea Level	
Site	Ruby	Federal							
Site Position: From: Position Uncertaint	Мар у:	0.00 usft	Northing: Easting: Slot Radiu	JS:		665,437.81 usfi 666,996.38 usfi 13-3/8 "	t Latitude: t Longitude: Grid Conve	rgence:	32° 49' 41,50037426 N 103° 47' 22.87078135 W 0.29 °
Well	Ruby	Federal 56	**					· · · · · · · · · · · · · · · · · · ·	
Well Position	+N/-S +E/-W	0.00 usft 0.00 usft	Northing: Easting:		666,12 664,36	3.79 usft 1.65 usft	L L	atitude:	32° 49' 48.42118736 N 103° 47' 53.70686168 W
Position Uncertaint	у	0.00 usft	Wellhead Ele	vation:		usft	G	Ground Level;	3,981.00 usft
Wellbore	Origin	al Hole							
Magnetics	Model N	ame Sample Dat	e Declination (°)		Dip Angle (°)	1	Field Strength (nT)		
L	User	Defined 1/24.	2014 7.	54		50.63	48,732		· · · · · · · · · · · · · · · · · · ·
Design	rev0								
Audit Notes:									
Version:		Phase:	PROTOTYPE	Tie On Dep	th:	0.00			
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)		Direction (*)			
		0.00	0.00	0.00		103.64	· · · · · · · · · · · · · · · · · · ·		
						······	an a		
Survey fool Program	m <u>Date</u> To	1/24/2014							·····
(usft)	(usft)	Survey (Wellbore)	Tool Name		Descriptio	in			
0.00	6,968.45	rev0 (Original Hole)	MWD		MWD - Sta	andard			

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COMPASS 5000.1 Build 65

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				And a second and a second and a second secon	5
Company:	ConocoPhillips		Local Co-ordináte Reference:	Well Ruby Federal 56	- j
Project:	Lea County, New Mexico		TVD Reference:	RKB=3981++13 @ 3994.00usft ()	ł
Site:	Ruby Federal		MD Reference:	RKB=3981++13 @ 3994.00usft ()	- [1
Well:	Ruby Federal 56		North Reference:	Grid	
Wellbore:	Original Hole		Survey Calculation Method:	Minimum Curvature	ł
Design:	rev0		Database:	EDM 5000.1 Ddatabase	H
	. A TRANSPORT TAKEN TAKEN AND AND AND AND AND AND AND AND AND AN	<u></u>			<u> </u>
Planned Survey	· · · · · · · · · · · · · · · · · · ·				

(luning our cy						······································	ىردىيە ئالە ^ر ە ئايونىي سەردە ئېرىلىرە دىرە - بەرلىلىلەر		، هستان اورانی، اورانی، از است. « دارا « اورانی افتا»	
MD (üsft)	lnic (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg [*] (*/100usft)	V. Sec (usft)	Northing: (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0,00	666,123.79	664,361.65	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
300.00	0.00	0.00	300.00	0.00	0,00	0.00	0.00	666,123.79	664,361.65	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,900.00	0.00	0.00	1,900.00	. 0.00	0.00	0.00	0.00	666,123.79	664,361.65	
1,905.00	0.00	0.00	1,905.00	0.00	0.00	. 0.00	0.00	666,123.79	664,361.65	
KOP Begin 1,5°/10	00' build									
2,000.00	1.43	103.64	1,999.99	-0.28	1.15	1.50	1.18	666,123.51	664,362.80	
2,081.97	2.65	103.64	2,081.91	-0,97	3.98	1.50	4.10	666,122.82	664,365.63	
Begin 2.65° tanger 2,100.00	nt 2.65	- 103.64	2,099.92	-1.16	4.79	0.00	4.93	666,122.63	664,366.44	
2,200.00	2.65	103.64	2,199.81	-2.26	9.30	0.00	9.57	666,121.53	664,370.95	

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Company: (Project:) Site: F Well: F Wellbore: (Design: T	ConocoPhillips Lea County, New Mexico Ruby Federal Ruby Federal 56 , Original Hole rev0					Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculati Databáse:	e Reference: : on Method:	Well Ruby Federa RKB=3981++13 @ RKB=3981++13 @ Grid Minimum Curvatur EDM 5000.1 Ddata		
Planned Survey										
(usft)	(°)	Azi (azimuth) (°)	(usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
2,300.00	2.65	103.64	2,299.70	-3.35	13.80	0.00	14.20	666,120.44	664,375.45	
2,400.00	2.65	103.64	2,399.60	-4.44	18.30	0.00	18.83	666,119.35	664,379.95	
2,500.00	2.65	103.64	2,499.49	-5.53	22.80	0.00	23.46	666,118.26	664,384.45	
2,600.00) 2.65	103,64	2,599.38	-6,63	27.30	0.00	28.09	666,117,16	664,388.95	
2,700.00	2.65	103.64	2,699.27	-7.72	31.80	0.00	32.72	666,116.07	664,393.45	
2,800.00	2.65	103.64	2,799.17	-8.81	36.30	0.00	37.35	666,114.98	664,397.95	
2,900.00	2.65	103.64	2,899.06	-9.90	40.80	0.00	41.98	666,113.89	664,402.45	
3,000.00	2.65	103.64	2,998.95	-11.00	45.30	0.00	46.62	666,112.79	664,406.95	
3,100.00	2.65	103.64	3,098.84	-12.09	49.80	. 0.00	51.25	666,111.70	664,411.45	
3,200.00	2.65	103.64	3,198.74	-13.18	54.30	0.00	55.88	666,110.61	664,415.95	
3,300.00	2.65	103.64	3,298.63	-14.27	58.80	0.00	60.51	666,109.52	664,420.45	
3,400.00	2.65	103.64	3,398.52	-15.37	63.30	0.00	65.14	666,108.42	664,424.95	
3,500.00	2.65	103.64	3,498,42	-16.46	67.80	0.00	69.77	666,107.33	664,429.45	
3,600.00	2.65	103.64	3,598.31	-17.55	72.30	0.00	74.40	666,106.24	664,433.95	
3,700.00	2.65	103.64	3,698.20	-18.64	76.81	0.00	79.04	666,105.15	664,438.46	
3,800.00	2.65	103.64	3,798.09	-19.74	81.31	0.00	83,67	666,104.05	664,442.96	
3,900.00	2.65	103,64	3,897.99	-20,83	85.81	0.00	88.30	666,102.96	664,447.46	
4,000.00	2.65	103.64	3,997.88	-21.92	90.31	0.00	92.93	666,101.87	664,451.96	Í
4,100.00	2.65	103.64	4,097.77	-23.01	94.81	0.00	97.56	666,100.78	664,456.46	
4,200.00	2.65	103.64	4,197.66	-24.11	99.31	0.00	102.19	666,099.68	664,460.96	
4,300.00	2.65	103.64	4,297.56	-25.20	103.81	0.00	106.82	666,098.59	664,465.46	
4,400.00	2.65	103.64	4,397.45	-26.29	108.31	0.00	111.46	666,097.50	664,469.96	
4,500.00	2.65	103.64	4,497.34	-27.38	112.81	0.00	116.09	666,096.41	664,474.46	
4,600.00	2.65	103.64	4,597.23	-28.48	117.31	0.00	120.72	666,095.31	664,478.96	
4,700.00	2.65	103.64	4,697.13	-29.57	121.81	0.00	125.35	666,094.22	664,483.46	
4,800.00	2.65	103.64	4,797.02	-30.66	126.31	0.00	129.98	666,093.13	664,487.96	
4,900.00	2.65	103.64	4,896.91	-31,75	130.81	0.00	134.61	666,092.04	664,492.46	

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Company: Project: Sité: Well: Wellbore: Design:	ConocoPhillips Lea County, New Mex Ruby Federal Ruby Federal 56 Original Hole rev0	ips , New Mexico al al 56 e				Local Co-ordina TVD Reference: MD Reference: North Reference Surveŷ Calculati Dátabáse:	è Reference: : on Method:	Well Ruby Federal 56 RKB=3981++13 @ 3994.00usft () RKB=3981++13 @ 3994.00usft () Grid Minimum Curvature EDM 5000.1 Ddatabase		
Planned Survey	······································						······································			
MD (usft)	inc (")	Ăżi (azimuțh) (°)	T,VD (usft),	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting, (usft)	
5,000.0	2,65	103.64	4,996.81	-32.85	135.31	0.00	139.24	666,090.94	664,496.96	
5,100.0	2,65	103.64	5,096.70	-33.94	139.81	0.00	143.87	666,089.85	664,501.46	
5,176.4	48 2.65	103.64	5,173.09	-34.77	143.26	0.00	147.42 ·	666,089.02	664,504,91	
Begin 1,5	°/100' drop									
5,200.0	2.30	103.64	5,196.59	-35.01	144.25	1.50	148.43	666,088.78	664,505.90	
5,300.0	0.80	103.64	5,296.55	-35.65	146.88	1.50	151.14	666,088.14	664,508.53	
5,353.4	\$5 0.00	103.64	5,350.00	-35.74	147.24	1.50	151.52	666,088.05	664,508.89	
Begin ver	tical hold section									
5,400.0	0.00	103.64	5,396.55	-35.74	147.24	0.00	151.52	666,088.05	664,508.89	
5,500.0	0.00	103.64	5,496.55	-35.74	147.24	0.00	. 151.52	666,088.05	664,508.89	
5,600.0	00.0	103.64	5,596.55	-35.74	147.24	0.00	151.52	666,088.05	664,508.89	
5,700.0	0.00	103.64	5,696.55	-35.74	147.24	0.00	151.52	666,088.05	664,508.89	
5,800.0	0.00	103.64	5,796,55	-35.74	147.24	0.00	151.52	666,088.05	664,508.89	
5,900.0	00,0 00	103.64	5,896.55	-35,74	147.24	0.00	151.52	666,088.05	664,508.89	
6,000.0	0.00	103.64	5,996.55	-35.74	147.24	0.00	151.52	666,088.05	664,508.89	
6 100 0	10 0.00	103 64	6 096 55	-35 74	147 24	0.00	151.52	666.088.05	664.508.89	
6 200 0	0.00	103.64	6 196 55	-35.74	147.24	0.00	151.52	666.088.05	664,508,89	
6,300.0	0.00	103.64	6,296,55	-35.74	147.24	0.00	151.52	666,088.05	664,508.89	
6 400 0	0.00	103.64	6.396.55	-35.74	147.24	0.00	151,52	666,088.05	664,508.89	
6,500.0	0.00	103.64	6,496.55	-35,74	147.24	0.00	. 151.52	666,088.05	664,508.89	
-,500.0		100.01	, E00 EF	25.24	147.04	0.00	151 50	666 088 OF	664 508 89	
6,600.0	NU 0.00	103.64	0,090.00	-33./4	147.24	0.00	101.02	666,000,000	664 508 89	
6,700.0	0.00	103.64	0,090.00	-33.74	147.24	0.00	151.52	666 088 05	664 508 89	
6,800.0	0.00	103.64	6,790.00	-30.74	147.24	0.00	151.52	666 088 05	664 508 89	
6,900.0	u 0.00	103.64	0,090.00	-33.74	147.24	0.00	151.52	666 088 05	664 508 89	
6,968.4	5 0.00	103.64	6,965.00	-33,74	147.24	6.00	151.32	000,000,00	000,000	
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Company: Project: Site: Well:	ConocoPhilli Lea County, Ruby Federa Ruby Federa	ps New Mexico II II 56				Local TVD F MD R North	Co-ordinate Reference: Réference: eference: Réference:	Well Ruby Federal 56 RKB=3981++13 @ 3994.00usft () RKB=3981++13 @ 3994.00usft () Grid	
Design:	Conginal Hole					Datab	y Calculation Method:	Minimum Curvature	1
beargin.		1000 - 1000 - 1000		<u></u>			ajoc.		<u>ر</u>
Formations	· · ·								
	Measured	Vertical					Dip		
	Depth	Depth				Dip	Direction		
	(usft)	(usft)	Nai	ne	Lithology	(°)	<u> </u>		_
	710.00	710.00	Rustler			0.00			
	885.00	885.00	Salado			0.00			
	1,905.00	1,905.00	Tansil			0.00			
	2,040.03	2,040.00	Yates			0.00			
]	2,370.37	2,370.00	Seven Rivers			0.00			
	3,001.05	3,000.00	Queen			0.00			
	3,421.50	3,420.00	Grayburg			. 0.00			
	3,801,91	3,800.00	San Andres			0.00			
	5,273.44	5,270.00	Glorieta			0.00			
	5,353.45	5,350.00	Paddock			0.00			
	5,698.45	5,695.00	Blinebry			0.00			
	6,768.45	6,765.00	Tubb			0.00			
Plan Annotatio	ins .								٦
	Measured	Vertical	Local Coor	dinates	•				
	Depth	Depth	+N/-S	+E/-W					
	(usft)	(usft)	(usft)	(usft)	Comment				
	1,905.00	1,905.00	0.00	0.00	KOP Begin 1.5°/100' build				-
	2,081.97	2,081.91	-0.97	3,98	Begin 2.65° tangent				
	5,176,48	5,173.09	-34.77	143.26	Begin 1.5°/100' drop				
	5,353.45	5,350.00	-35.74	147.24	Begin vertical hold section				
	6,968.45	6,965.00	-35,74	147.24	PBHL/TD				

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6,965.00

147.24

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Request for Variance

ConocoPhillips Company

Lease Number: NM LC 029405B Well: Ruby Federal #56 Location: Sec. 18, T17S, R32E Date: 2/5/2014

Request:



ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

Justifications:

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

Attachments:

- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

Contact Information:

Program prepared by: Steven Herrin Drilling Engineer, ConocoPhillips Company Phone: (281) 206-5115 Cell: (432) 209-7558 Attachment # 2

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Attachment # 1



Reliance Eliminator Choke & Kill

This hose can be used as a choke hose which connects the BOP stack to the bleed-off manifold or a kill hose which connects the mud stand pipe to the BOP kill valve.

The Reliance Eliminator Choke & Kill hose contains a specially bonded compounded cover that replaces rubber covered Asbestos, Fibreglass and other fire retardant materials which are prone to damage. This high cut and gouge resistant cover overcomes costly repairs and downtime associated with older designs.

The Reliance Eliminator Choke & Kill hose has been verified by an independent engineer to meet and exceed EUB Directive 36 (700°C for 5 minutes).

No	m. ID	Nor	n OD 🐪	Weig	ght	Min Be	nd Radius	s Max	WP
in.	mm.	in.	mm	lb/ft	kg/m	in.	mm.	psi	Mpa
3	76.2	5.11	129.79	14.5	21.46	48	1219.2	5000	34.4
3-1/2	88.9	5.79	147.06	20.14	29.80	54	1371.6	5000	34.4
			ક્ષાનું કે	:					
								· . ·	
			Flanges	. •	Han	nmer Un	ions	Othe	r
fittings									
littings RC4X5055		R35 - 3-1	/8 5000# AF	Y Type 6B	Ali Un	ion Configu	irations 1	P Threaded C	onnect
ittings IC4X5055 IC3X5055		R35 - 3-1 R31 - 3-1	/8 5000# AF /8 3000# AF	Pl Type 6B Pl Type 6B	All Un	ion Configu	irations I	LP Threaded C Graylou	onnect :k
Fittings RC4X5055 RC3X5055 RC4X5575		R35 - 3-1 R31 - 3-1	/8 5000# AF /8 3000# AF	Pl Type 6B Pl Type 6B	All Un	ion Configu	urations i	LP Threaded C Graylou Custom E	onnect :k inds

Closed Loop System Design, Operating and Maintenance, and Closure Plan

ConocoPhillips Company Well: Ruby Federal #56 Location: Sec. 18, T17S, R372E Date: 2/5/2014

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, nor will we use a drying pad, nor will we build an earth pit above ground level, nor will we 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 in frac tanks as needed. The intent is as follows:

- We propose to use the rigs' 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 by each tour and any need repairs will be made immediately. Any leak in the system will be repaired immediately, and 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 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 Toll Free Phone: 877.505.4274, Local Phone Number: 432.638.4076

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 NM-01-0006.

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, PO 5208 Hobbs, NM, 88241, Permit SWD 092. (Well Location: Section 3, T19S R37E)
 - Basic Energy Services, P.O. Box 1869; Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.

Steven Herrin Drilling Engineer, ConocoPhillips Company Phone: (281) 206-5115 Cell: (432) 209-7558

SPECIFICATIONS

FLOOR: 3/16" PL one piece CROSS MEMBER: 3 x 4.1 channel 16" on 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 with tubing frame PICK U P: Standard cable with 2" x 6" x 1/4" rails, gu sset at each crossmember WHEELS: 10 DIA x 9 long with rease fittings DOORN ATCH: 8 Independent ratchet binders with chains, vertical/second latch GASKETS: Extruded rubber seal with metal

retainers

retainer's WELDS: All welds continuous except sub-structure crossmembers FINISH: Coated inside and out with direct to metal, rust inhibiting activitic ename! color coat HYDROTESTING: Full capacity static test DIMEN SIONS: 22-11' long (21'-8" inside); 99" wide (88' inside); see drawing for height ORTEDISE. Strategic based activities OPTIONS: Steel grit blast and special paint, Ampliroll, Hell and Dino pickup ROOF: 3/16" PL roof panels with tubing and

channe i 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) 60^V x 82^v openings

with 8" divider centered on container

LATCH: (2) independent ratchet binders with chains perlid

GASKETS' Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



A	8
41	53
53	65
65	77
	A 41 53 65



31

Location Schematic and Rig Layout for Closed Loop System (PECIDE NOT TO SCALE)

Denso by: Steven Hento Deling Englacer, ConocoPhillps Company Dele: optieted January 2014

NOTE: There are two causter areas depending on the prevailing who direction, generally south in this area. The muster area that is durined upwhor considered will be the during read area for brieflag and essensing the situation, to the event a full evacuation is deemed pendersary, all persurvel will ent the bostics via the access walt. If the main access wall is blocked off, they will end via a secondary wall (if available) or wells off mute in the operative scand direction.





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 Tom Samarripa at ConocoPhillips Company, 432.368.1263.

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