

HOBBS OGD

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 03 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER
RECEIVED

5. Lease Serial No. **DD**
NMLC 029405B

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA Agreement, Name and No.
N/A

8. Lease Name and Well No. **(38653)**
Ruby Federal 60

9. API Well No.
30-025- **42298**

10. Field and Pool, or Exploratory
Maljamar; Yeso West **(44500)**

11. Sec., T. R. M. or Blk. and Survey of Area
Sec. 18, T17S, R32E

12. County or Parish
Lea County

13. State
NM

14. Distance in miles and direction from nearest town or post office*
Approximately 3 miles south of Maljamar, New Mexico

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'

16. No. of acres in lease 1601.96

17. Spacing Unit dedicated to this well 40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 130'

19. Proposed Depth 6950' TVD/7019' MD

20. BLM/BIA Bond No. on file ES0085

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3951'

22. Approximate date work will start* 10/01/2014

23. Estimated duration 7 days

1a. Type of work: DRILL REENTER

1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator
ConocoPhillips Company **(217817)**

3a. Address 600 N. Dairy Ashford Rd; Office P10-4-4054 Houston, TX 77079-1175

3b. Phone No. (include area code) (281)206-5281

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface UL K, Sec. 18, T17S, R32E; 1460' FSL and 1706' FWL
At proposed prod. zone UL N, Sec. 18, T17S, R32E; 990' FSL and 2310' FWL

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature **Susan B. Maunder** Name (Printed/Typed) Susan B. Maunder Date **3/4/14**

Title Senior Regulatory Specialist

Approved by (Signature) **Steve Caffey** Name (Printed/Typed) Date **NOV 24 2014**

Title FIELD MANAGER Office CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. **APPROVAL FOR TWO YEARS**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

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12/03/14

Jm

Roswell Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

DEC 04 2014

Operator Certification

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CONOCOPHILLIPS COMPANY

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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.

Susan B. Maunder Date: 3/4/14
Susan B. Maunder
Senior Regulatory Specialist

Drilling Plan
 ConocoPhillips Company
Maljamar; Grayburg-San Andres, Yeso (west)

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DEC 03 2014

Ruby Federal #60

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Lea County, New Mexico

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	670	670	Anhydrite
Salado (top of salt)	855	855	Salt
Tansill (base of salt)	1885	1885	Gas, Oil and Water
Yates	2020	2020	Gas, Oil and Water
Seven Rivers	2350	2352	Gas, Oil and Water
Queen	2985	3000	Gas, Oil and Water
Grayburg	3395	3420	Gas, Oil and Water
San Andres	3770	3803	Gas, Oil and Water
Glorieta	5255	5318	Gas, Oil and Water
Paddock	5335	5399	Gas, Oil and Water
Blinebry	5675	5741	Gas, Oil and Water
Tubb	6750	6819	Gas, Oil and Water
Deepest estimated perforation	6750	6819	Deepest estimated perf. is ~ Top of Tubb
Total Depth (maximum)	6950	7019	200' below deepest estimated perforation

All of the water bearing formations identified above will be protected by setting of the 8-5/8" surface casing 25' – 70' into the Rustler formation 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 5-1/2" production casing 10' off bottom of TD 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:

Type	Hole Size	Interval MD RKB (ft)		OD	Wt	Gr	Conn	MIY	Col	Jt Str	Safety Factors Calculated per ConocoPhillips Corporate Criteria		
		From	To								Burst DF	Collapse DF	Jt Str DF (Tension) Dry/Buoyant
	(in)			(inches)	(lb/ft)			(psi)	(psi)	(klbs)			
Cond	20	0	40' – 85' (30' – 75' BGL)	16	0.5" wall	B	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	NA
Surf	12-1/4	0	595' – 740'	8-5/8	24#	J-55	STC	2950	1370	244	1.59	3.78	3.64
Prod	7-7/8	0	6964' – 7009'	5-1/2	17#	L-80	LTC	7740	6290	338	2.14	2.52	2.00

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:

Type	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	740	24	2950	1370	244000	8.5	8.08	3.75	12.3	14.1
Production Casing	7009	17	7740	6290	338000	10	2.12	1.73	2.84	3.35

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

Casing Design Factors	Burst	Collapse	Axial
	1.15	1.05	1.4

Type	Depth	WT	MIY	Col	Jf Str	Pipe Yield MW	Burst	Col	Tem
Conductor	85	85	35200	-	-	43298.6	-	-	-
Surface Casing (3-5/8" 24# J-55 STC)	826	24	2950	1370	244000	331000	8.5	1.58	3.73
Production Casing (5-1/2" #4 L-80 LTC)	7009	17	7740	6290	232000	337000	10	2.42	2.51

Burst - ConocoPhillips Required Load Cases:

The maximum internal burst load on the Surface Casing occurs when the surface casing is tested to 1500 psi (as per BLM Order 2. III. Requirements).
 The maximum internal burst load on the Production Casing occurs during the fracture stimulation where the maximum allowed is working pressure (MAWP) is the pressure that would fit ConocoPhillips Corporate Criteria for Minimum Factors.

Surface Casing Test Pressure =	1500 psi	Projected Para Pressure at TD (PPTD) =	9.55 ppig
Surface Rated Working Pressure (RGFP) =	2000 psi	Projected Para Grated at Shoe (GSPG) =	19.23 ppig
Field SW =	10 ppig		

Surface Casing Burst Safety Factor = API Burst Rating / Maximum Predicted Surface Pressure (MPSP) / CF Maximum Allowable Surface Pressure (MAASP)
 Production Casing MAWP for the Pressure Stimulation = API Burst Rating / Corporate Minimum Burst Design Factor

Surface Casing Burst Safety Factor:

Case #1, MPSP (MAWP next section) =	826	x	0.052	x	10	=	430
Case #2, MPSP (Field SW @ Bulhead casing + 200 psi) =	826	x	0.052	x	19.23	=	450 + 200 = 598
Case #2, MPSP (Kick Vol @ next section TD) =	7009	x	0.052	x	9.55	=	812.3
Case #4, MPSP (PPTD - CG) =	7009	x	0.052	x	8.55	=	700.9 = 241.5
Case #2 & #4 Limited to MPSP (CGSG + 0.2 ppig) =	826	x	0.052	x	(19.23 + 0.2) =	825	
MAASP (MAWP + Test Pressure) =	826	x	0.052	x	8.5	=	1500 = 1665
Burst Safety Factor (Max. MPSP or MAASP) =	2950	/	1665	=	1.90		

Production Casing Burst Safety Factor:

Case #1, MPSP (MAWP TD) =	7009	x	0.052	x	10	=	3844.80
Case #4, MPSP (PPTD - CG) =	7009	x	0.052	x	8.55	=	700.9 = 241.5
Burst Safety Factor (Max. MPSP) =	7740	/	3645	=	2.12		
MAWP for the Fracture Stimulation (Corporate Criteria) =	7740	/	1.15	=	6730		

Collapse - ConocoPhillips Required Load Cases:

The maximum collapse load on the Surface Casing occurs when cementing to surface, 1/2 evacuation to the next casing string depth, or deepest central exposure (full evacuation).
 The maximum collapse load on the Production Casing occurs when cementing to surface, or 1/2 evacuation to the deepest depth of exposure; and therefore, the external pressure profile for the maximum cases should be equal to the one presented the fracture on the outside of the casing which we assumed to be PPTD.

Surface Casing Collapse Safety Factor = API Collapse Rating / Full Evacuation CF Cement Displacement during Cementing to Surface
 Production Casing Collapse Safety Factor = API Collapse Rating / Maximum Predicted Surface Pressure / CF Cement Displacement during Cementing to Surface

Cement Displacement Fluid (FW) =	8.24 ppig	Top of Cement =	Cement to Surface
Surface Cement Load =	13.6 ppig	Prod Cement Load =	11.8 ppig
Surface Cement Tail =	14.8 ppig	Prod Cement Tail =	18.4 ppig
Top of Surface Tail Cement =	300 ft	Top of Prod Tail Cement =	5280 ft

Surface Casing Collapse Safety Factor:

Full Evacuation CF Pressure =	826	x	0.052	x	8.55	=	267					
Cementing CF L/H Pressure =	(328	x	0.052	x	13.6) + (300	x	0.052	x	14.8) =	245
Collapse Safety Factor =	1370	/	267	=	2.73							

Production Casing Collapse Safety Factor:

1/2 Evacuation CF Pressure =	(7009	x	0.052	x	8.55	) + ( 7009	/	2	x	0.052	x	8.24	) =	2103
Cementing CF L/H Pressure =	(1809	x	0.052	x	11.8	) + ( 5280	x	0.052	x	18.4	) =	3040	=	2505
Collapse Safety Factor =	8290	/	2505	=	2.51									

Tensile Strength - ConocoPhillips Required Load Cases:

The maximum axial (tensile) load occurs casing wire to get stuck and pull back to try to get unstuck.

Maximum Allowable Axial Load for Pipe Yield = API Pipe Yield Strength Rating / Corporate Minimum Axial Design Factor

Maximum Allowable Axial Load for Joints = API Joint Strength Rating / Corporate Minimum Axial Design Factor

Maximum Allowable Hook Load (limited to 75% of Rig Max Load) = Maximum Allowable Axial Load

Maximum Allowable Overall Margin = Maximum Allowable Hook Load - Buoyant Wt of the String

Tensile Safety Factor = API Pipe Yield / CF API Joint Strength / CF Rig Max Load Rating / 1 Buoyant Wt of String + Minimum Overall Required

Rig Max Load (210,000 lbs) x 75% =	225000 lbs
Minimum Overall Required =	50000 lbs

Surface Casing Tensile Strength Safety Factor:

Air Wt =	19924						
Buoyant Wt =	19924	x	0.670	=	17251		
Max. Allowable Axial Load (Pipe Yield) =	331000	/	1.40	=	272143		
Max. Allowable Axial Load (Joints) =	244000	/	1.40	=	174286		
Max. Allowable Hook Load (limited to 75% of Rig Max Load) =	174286	-	(15224	x	0.670	) =	157034
Max. Allowable Overall Margin =	174286	-	(15224	x	0.670	) =	157034
Tensile Safety Factor =	244000	/	17251	=	50000	=	3.63

Production Casing Tensile Strength Safety Factor:

Air Wt =	119452						
Buoyant Wt =	119452	x	0.647	=	100982		
Max. Allowable Axial Load (Pipe Yield) =	337000	/	1.40	=	26571		
Max. Allowable Axial Load (Joints) =	338000	/	1.40	=	241429		
Max. Allowable Hook Load (limited to 75% of Rig Max Load) =	225000	-	(119452	x	0.647	) =	124038
Max. Allowable Overall Margin =	225000	-	(119452	x	0.647	) =	124038
Tensile Safety Factor =	308000	/	100982	=	50000	=	1.89

Compression Strength - ConocoPhillips Required Load Cases:

The maximum axial (compressive) load in the wellbore where the surface casing is landed on the conductor.

with a support of a stable landing ring. The surface casing is also calculated to bear 60% of the total but not limited. Any other axial loads such as a snubbing and or other would need to be added to the load.

Compression Safety Factor = API Axial Joint Strength Rating / CF API Axial Pipe Yield Rating / Maximum Predicted Load

Without Load = 3080 lbs

Conductor & Surface Compression Safety Factor

Surf Casing Wt (Buoyant) =	(19924	x	0.870	) =	17251		
Prod Casing Wt (Buoyant) =	(119452	x	0.847	) =	100982		
Tubing Wt (Air Wt) =	7009	x	0.5	=	45558.5		
Tubing Fluid Wt =	7009	x	0.852	=	8.55	x	0.785398
Load on Conductor =	2000	+ 17251	+ 100982	=	45558.5	+ 11172	= 177943
Conductor Compression Safety Factor =	43298.6	/	177943	=	2.43		
Load on Surface Casing =	177343	x	60%	=	108788.1		
Surface Casing Compression Safety Factor =	244000	/	108788	=	2.29		

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		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	495' – 540'	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	495' – 540'	695' – 740'	14.8	200	268	1% CaCl ₂ Excess = 100% based on gauge hole volume	1.34

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		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /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'	6964' – 7009'	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		Intervals Ft 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'	6964' – 7009'	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 11" 3M 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 nipping 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	pH	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.
- 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:

See
COA

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 is as early as late 2014 after receiving approval of the APD.

Attachments:

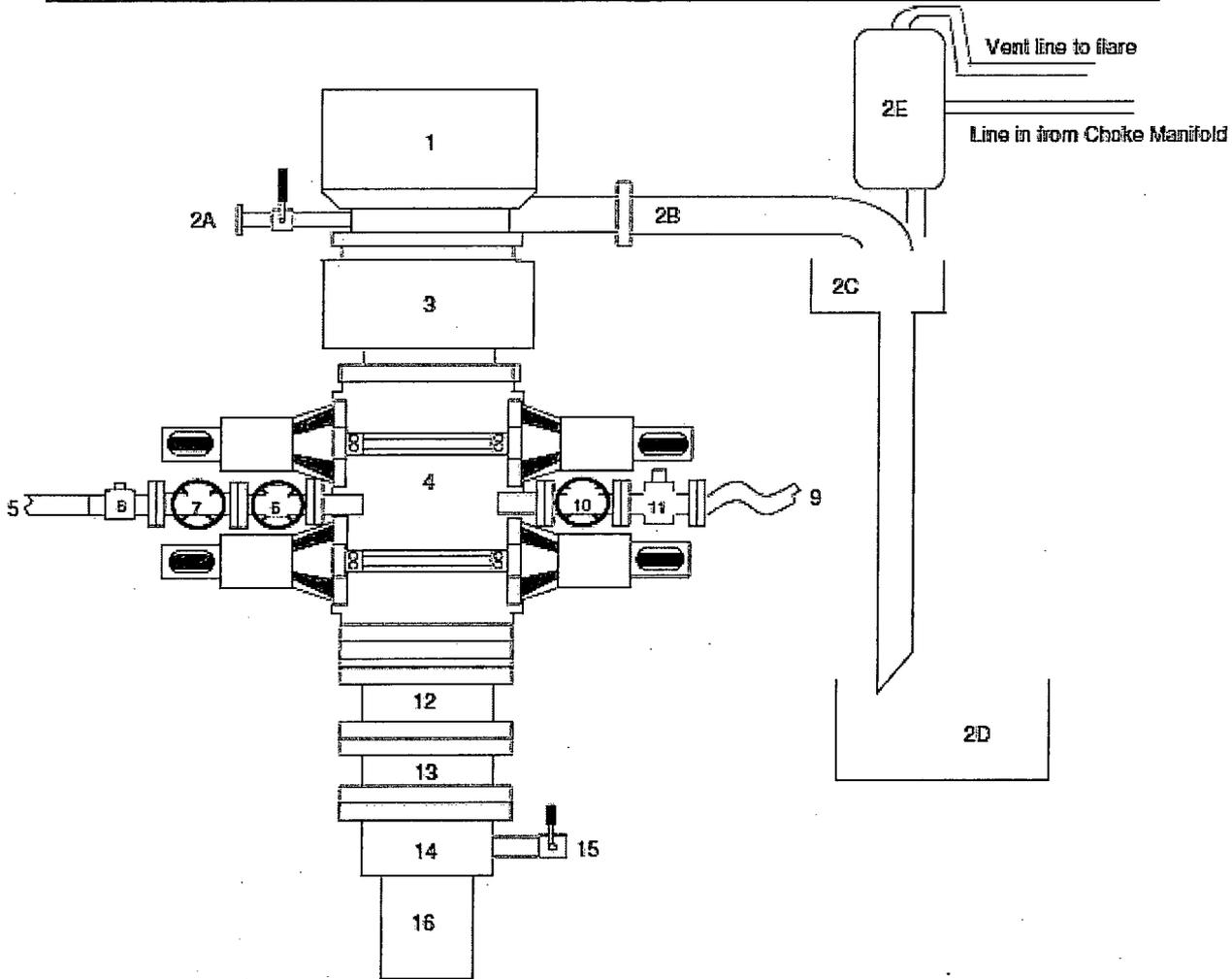
- Attachment # 1 BOP and Choke Manifold Schematic – 3M System
- Attachment # 2 Diagram of Choke Manifold Equipment

Contact Information:

Proposed 11 February 2014 by:
Steven Herrin
Drilling Engineer, ConocoPhillips Company
Phone (281) 206-5115
Cell (432) 209-7558

Attachment # 1

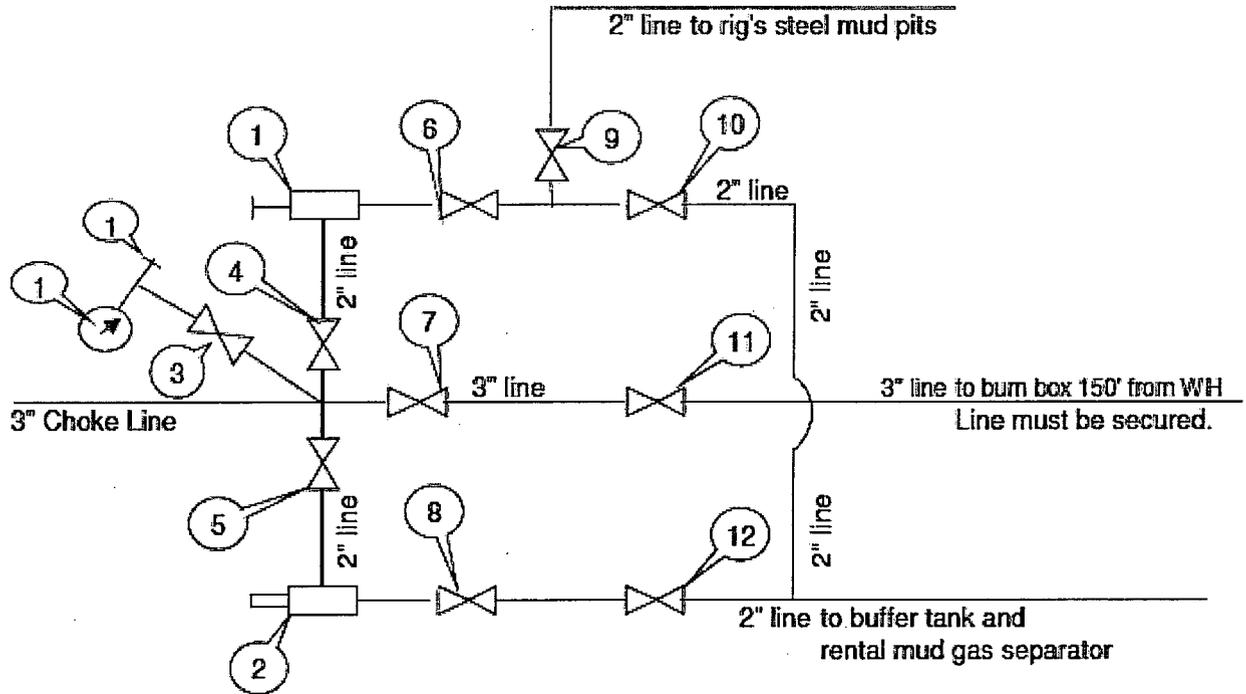
BLOWOUT PREVENTER ARRANGEMENT
 3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Rated Equipment



Item	Description
1	Rotating Head, 11"
2A	Fill up Line and Valve
2B	Flow Line (10")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (11", 3M)
4	Double Ram (11", 3M, equipped with Blind Rams and Pipe Rams)
5	Kill Line (2" flexible hose, 3000 psi WP)
6	Kill Line Valve, Inner (3-1/8", 3000 psi WP)
7	Kill Line Valve, Outer (3-1/8", 3000 psi WP)
8	Kill Line Check Valve (2-1/16", 3000 psi WP)
9	Choke Line (5M Stainless Steel Colflex Line, 3-1/8" 3M API Type 6B, 3000 psi WP)
10	Choke Line Valve, Inner (3-1/8", 3000 psi WP)
11	Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 3000 psi WP)
12	Adapter Flange (11" 5M to 11" 3M)
13	Spacer Spool (11", 5M)
14	Casing Head (11" 5M)
15	Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M
16	Surface Casing

Submitted by: Steven Herra, Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company, 03-Jan-2014

CHOKE MANIFOLD ARRANGEMENT
 3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Equipment



All Tees must be targeted

Item	Description
1	Manual Adjustable Choke, 2-1/16", 3M
2	Remote Controlled Hydraulically Operated Adjustable Choke, 2-1/16", 3M
3	Gate Valve, 2-1/16" 5M
4	Gate Valve, 2-1/16" 5M
5	Gate Valve, 2-1/16" 5M
6	Gate Valve, 2-1/16" 5M
7	Gate Valve, 3-1/8" 3M
8	Gate Valve, 2-1/16" 5M
9	Gate Valve, 2-1/16" 5M
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:
 Steven Herrin
 Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company
 Date: 3-January-2014

ConocoPhillips MCBU

Buckeye

Ruby Federal

Ruby Federal 60

Ruby Federal 60

Plan: Plan Design

Standard Planning Report - Geographic

19 December, 2013

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 60
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 3964.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 3964.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 60	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ruby Federal 60		
Design:	Plan Design		

Project	Buckeye, Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Ruby Federal, New Mexico, Southeast				
Site Position:	Northing:	666,097.48 usft	Latitude:	32° 49' 48.040 N	
From:	Lat/Long	Easting:	666,763.63 usft	Longitude:	103° 47' 25.559 W
Position Uncertainty:	3.5 usft	Slot Radius:	8 "	Grid Convergence:	0.29 °

Well	Ruby Federal 60, Deviated Well					
Well Position	+N/-S	0.0 usft	Northing:	666,545.40 usft	Latitude:	32° 49' 52.748 N
	+E/-W	0.0 usft	Easting:	661,230.26 usft	Longitude:	103° 48' 30.380 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,951.0 usft

Wellbore	Ruby Federal 60				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2013	12/10/2013	(°)	(°)	(nT)
			7.55	60.64	48,686

Design	Plan Design				
Audit Notes:					
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	127.51	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,750.0	0.00	0.00	1,750.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,573.6	12.35	127.51	2,567.2	-53.9	70.2	1.50	1.50	0.00	127.51	
4,510.5	12.35	127.51	4,459.3	-306.2	398.9	0.00	0.00	0.00	0.00	
6,981.3	0.00	0.00	6,911.0	-467.8	609.4	0.50	-0.50	0.00	180.00	Ruby Federal 60 (BHI)

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 60
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 3964.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 3964.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 60	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ruby Federal 60		
Design:	Plan Design		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
85.0	0.00	0.00	85.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
Conductor									
100.0	0.00	0.00	100.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
200.0	0.00	0.00	200.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
300.0	0.00	0.00	300.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
400.0	0.00	0.00	400.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
500.0	0.00	0.00	500.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
600.0	0.00	0.00	600.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
654.0	0.00	0.00	654.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
Rustler									
700.0	0.00	0.00	700.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
724.0	0.00	0.00	724.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
Surface									
800.0	0.00	0.00	800.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
827.0	0.00	0.00	827.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
Salado									
900.0	0.00	0.00	900.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,750.0	0.00	0.00	1,750.0	0.0	0.0	666,545.40	661,230.26	32° 49' 52.748 N	103° 48' 30.380 W
1,800.0	0.75	127.51	1,800.0	-0.2	0.3	666,545.20	661,230.52	32° 49' 52.746 N	103° 48' 30.377 W
1,831.0	1.22	127.51	1,831.0	-0.5	0.7	666,544.88	661,230.95	32° 49' 52.743 N	103° 48' 30.372 W
Tansill									
1,900.0	2.25	127.51	1,900.0	-1.8	2.3	666,543.61	661,232.60	32° 49' 52.731 N	103° 48' 30.353 W
2,000.0	3.75	127.51	1,999.8	-5.0	6.5	666,540.42	661,236.75	32° 49' 52.699 N	103° 48' 30.305 W
2,039.3	4.34	127.51	2,039.0	-6.7	8.7	666,538.74	661,238.95	32° 49' 52.682 N	103° 48' 30.279 W
Yates									
2,100.0	5.25	127.51	2,099.5	-9.8	12.7	666,535.65	661,242.97	32° 49' 52.651 N	103° 48' 30.232 W
2,200.0	6.75	127.51	2,199.0	-16.1	21.0	666,529.28	661,251.27	32° 49' 52.588 N	103° 48' 30.135 W
2,300.0	8.25	127.51	2,298.1	-24.1	31.4	666,521.33	661,261.62	32° 49' 52.509 N	103° 48' 30.014 W
2,339.3	8.84	127.51	2,337.0	-27.6	36.0	666,517.78	661,266.25	32° 49' 52.473 N	103° 48' 29.960 W
Seven Rivers									
2,400.0	9.75	127.51	2,396.9	-33.6	43.8	666,511.81	661,274.03	32° 49' 52.414 N	103° 48' 29.869 W
2,500.0	11.25	127.51	2,495.2	-44.7	58.2	666,500.71	661,288.48	32° 49' 52.303 N	103° 48' 29.701 W
2,573.6	12.35	127.51	2,567.2	-53.9	70.2	666,491.55	661,300.42	32° 49' 52.212 N	103° 48' 29.561 W
2,600.0	12.35	127.51	2,593.0	-57.3	74.6	666,488.11	661,304.90	32° 49' 52.178 N	103° 48' 29.509 W
2,700.0	12.35	127.51	2,690.7	-70.3	91.6	666,475.08	661,321.87	32° 49' 52.048 N	103° 48' 29.311 W
2,800.0	12.35	127.51	2,788.4	-83.4	108.6	666,462.05	661,338.84	32° 49' 51.918 N	103° 48' 29.113 W
2,900.0	12.35	127.51	2,886.1	-96.4	125.6	666,449.03	661,355.81	32° 49' 51.789 N	103° 48' 28.915 W
2,982.8	12.35	127.51	2,967.0	-107.2	139.6	666,438.23	661,369.87	32° 49' 51.681 N	103° 48' 28.751 W
Queen									
3,000.0	12.35	127.51	2,983.8	-109.4	142.5	666,436.00	661,372.78	32° 49' 51.659 N	103° 48' 28.717 W
3,100.0	12.35	127.51	3,081.4	-122.4	159.5	666,422.97	661,389.75	32° 49' 51.529 N	103° 48' 28.518 W
3,200.0	12.35	127.51	3,179.1	-135.5	176.5	666,409.94	661,406.72	32° 49' 51.399 N	103° 48' 28.320 W
3,300.0	12.35	127.51	3,276.8	-148.5	193.4	666,396.92	661,423.69	32° 49' 51.270 N	103° 48' 28.122 W
3,400.0	12.35	127.51	3,374.5	-161.5	210.4	666,383.89	661,440.66	32° 49' 51.140 N	103° 48' 27.924 W

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 60
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 3964.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 3964.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 60	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ruby Federal 60		
Design:	Plan Design		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,406.7	12.35	127.51	3,381.0	-162.4	211.5	666,383.02	661,441.79	32° 49' 51.131 N	103° 48' 27.911 W	
Grayburg										
3,500.0	12.35	127.51	3,472.2	-174.6	227.4	666,370.86	661,457.63	32° 49' 51.010 N	103° 48' 27.726 W	
3,600.0	12.35	127.51	3,569.9	-187.6	244.4	666,357.84	661,474.60	32° 49' 50.880 N	103° 48' 27.528 W	
3,700.0	12.35	127.51	3,667.6	-200.6	261.3	666,344.81	661,491.57	32° 49' 50.751 N	103° 48' 27.330 W	
3,797.7	12.35	127.51	3,763.0	-213.3	277.9	666,332.08	661,508.15	32° 49' 50.624 N	103° 48' 27.136 W	
San Andres										
3,800.0	12.35	127.51	3,765.2	-213.6	278.3	666,331.78	661,508.54	32° 49' 50.621 N	103° 48' 27.132 W	
3,900.0	12.35	127.51	3,862.9	-226.7	295.3	666,318.75	661,525.51	32° 49' 50.491 N	103° 48' 26.933 W	
4,000.0	12.35	127.51	3,960.6	-239.7	312.2	666,305.73	661,542.48	32° 49' 50.361 N	103° 48' 26.735 W	
4,100.0	12.35	127.51	4,058.3	-252.7	329.2	666,292.70	661,559.45	32° 49' 50.232 N	103° 48' 26.537 W	
4,200.0	12.35	127.51	4,156.0	-265.7	346.2	666,279.67	661,576.42	32° 49' 50.102 N	103° 48' 26.339 W	
4,300.0	12.35	127.51	4,253.7	-278.8	363.1	666,266.64	661,593.39	32° 49' 49.972 N	103° 48' 26.141 W	
4,400.0	12.35	127.51	4,351.3	-291.8	380.1	666,253.62	661,610.36	32° 49' 49.842 N	103° 48' 25.943 W	
4,500.0	12.35	127.51	4,449.0	-304.8	397.1	666,240.59	661,627.33	32° 49' 49.713 N	103° 48' 25.745 W	
4,510.5	12.35	127.51	4,459.3	-306.2	398.9	666,239.22	661,629.12	32° 49' 49.699 N	103° 48' 25.724 W	
4,600.0	11.91	127.51	4,546.8	-317.7	413.8	666,227.77	661,644.03	32° 49' 49.585 N	103° 48' 25.550 W	
4,700.0	11.41	127.51	4,644.7	-330.0	429.8	666,215.47	661,660.06	32° 49' 49.463 N	103° 48' 25.363 W	
4,800.0	10.91	127.51	4,742.8	-341.7	445.2	666,203.69	661,675.40	32° 49' 49.345 N	103° 48' 25.184 W	
4,900.0	10.41	127.51	4,841.1	-353.0	459.8	666,192.43	661,690.07	32° 49' 49.233 N	103° 48' 25.012 W	
5,000.0	9.91	127.51	4,939.5	-363.7	473.8	666,181.69	661,704.06	32° 49' 49.126 N	103° 48' 24.849 W	
5,100.0	9.41	127.51	5,038.1	-374.0	487.1	666,171.47	661,717.36	32° 49' 49.024 N	103° 48' 24.694 W	
5,200.0	8.91	127.51	5,136.8	-383.6	499.8	666,161.79	661,729.99	32° 49' 48.928 N	103° 48' 24.546 W	
5,297.3	8.42	127.51	5,233.0	-392.6	511.4	666,152.86	661,741.61	32° 49' 48.839 N	103° 48' 24.411 W	
Glorieta										
5,300.0	8.41	127.51	5,235.7	-392.8	511.7	666,152.62	661,741.92	32° 49' 48.837 N	103° 48' 24.407 W	
5,376.1	8.03	127.51	5,311.0	-399.4	520.3	666,146.00	661,750.55	32° 49' 48.771 N	103° 48' 24.306 W	
Paddock										
5,400.0	7.91	127.51	5,334.7	-401.4	522.9	666,143.98	661,753.18	32° 49' 48.751 N	103° 48' 24.276 W	
5,500.0	7.41	127.51	5,433.8	-409.6	533.5	666,135.87	661,763.74	32° 49' 48.670 N	103° 48' 24.152 W	
5,600.0	6.91	127.51	5,533.0	-417.1	543.4	666,128.28	661,773.63	32° 49' 48.594 N	103° 48' 24.037 W	
5,700.0	6.41	127.51	5,632.4	-424.2	552.6	666,121.23	661,782.82	32° 49' 48.524 N	103° 48' 23.929 W	
5,716.8	6.32	127.51	5,649.0	-425.3	554.1	666,120.09	661,784.29	32° 49' 48.513 N	103° 48' 23.912 W	
Blinebry										
5,800.0	5.91	127.51	5,731.8	-430.7	561.1	666,114.70	661,791.33	32° 49' 48.459 N	103° 48' 23.830 W	
5,900.0	5.41	127.51	5,831.3	-436.7	568.9	666,108.69	661,799.15	32° 49' 48.399 N	103° 48' 23.739 W	
6,000.0	4.91	127.51	5,930.9	-442.2	576.0	666,103.22	661,806.27	32° 49' 48.345 N	103° 48' 23.656 W	
6,100.0	4.41	127.51	6,030.6	-447.2	582.5	666,098.28	661,812.71	32° 49' 48.295 N	103° 48' 23.580 W	
6,200.0	3.91	127.51	6,130.3	-451.6	588.2	666,093.86	661,818.46	32° 49' 48.251 N	103° 48' 23.513 W	
6,300.0	3.41	127.51	6,230.1	-455.4	593.3	666,089.98	661,823.52	32° 49' 48.213 N	103° 48' 23.454 W	
6,400.0	2.91	127.51	6,329.9	-458.8	597.7	666,086.63	661,827.89	32° 49' 48.179 N	103° 48' 23.403 W	
6,500.0	2.41	127.51	6,429.8	-461.6	601.3	666,083.81	661,831.56	32° 49' 48.151 N	103° 48' 23.360 W	
6,600.0	1.91	127.51	6,529.8	-463.9	604.3	666,081.51	661,834.55	32° 49' 48.128 N	103° 48' 23.326 W	
6,700.0	1.41	127.51	6,629.7	-465.7	606.6	666,079.75	661,836.84	32° 49' 48.111 N	103° 48' 23.299 W	
6,781.3	1.00	127.51	6,711.0	-466.7	608.0	666,078.71	661,838.20	32° 49' 48.101 N	103° 48' 23.283 W	
Tubb										
6,800.0	0.91	127.51	6,729.7	-466.9	608.2	666,078.53	661,838.44	32° 49' 48.099 N	103° 48' 23.280 W	
6,900.0	0.41	127.51	6,829.7	-467.6	609.1	666,077.83	661,839.35	32° 49' 48.092 N	103° 48' 23.269 W	
6,971.0	0.05	127.51	6,900.7	-467.8	609.3	666,077.66	661,839.58	32° 49' 48.090 N	103° 48' 23.267 W	
Production										
6,981.3	0.00	0.00	6,911.0	-467.8	609.4	666,077.65	661,839.58	32° 49' 48.090 N	103° 48' 23.267 W	

ConocoPhillips
Planning Report - Geographic

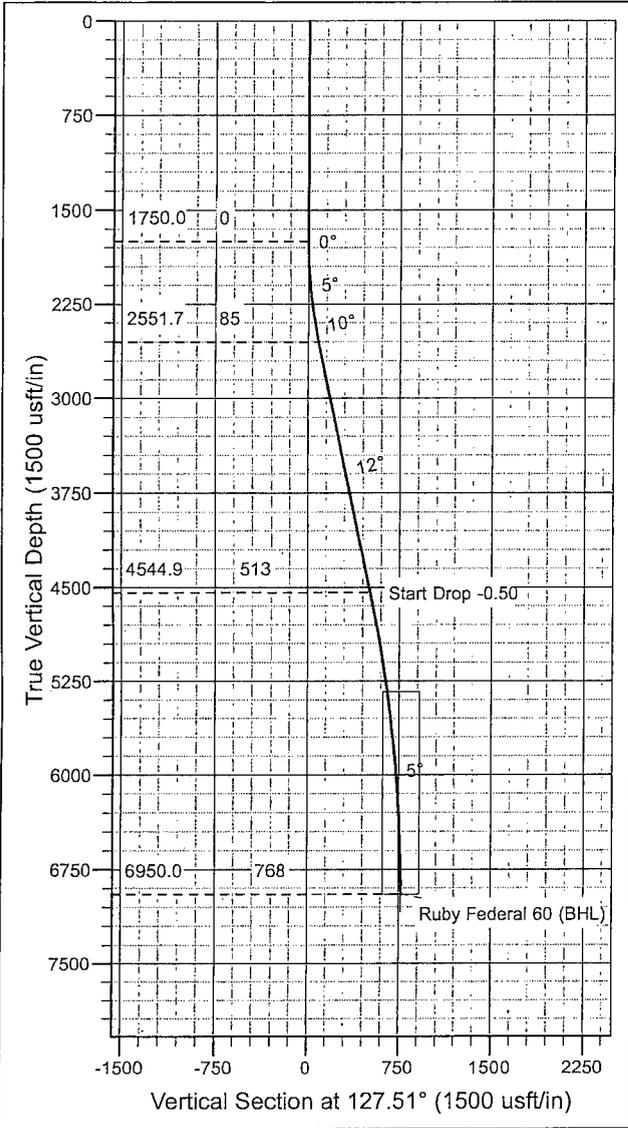
Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 60
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 3964.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 3964.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 60	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ruby Federal 60		
Design:	Plan Design		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Ruby Federal 60 (BHL) - plan hits target center - Circle (radius 150.0)	0.00	0.00	6,911.0	-467.8	609.4	666,077.65	661,839.58	32° 49' 48.090 N	103° 48' 23.267 W

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(")	(")
85.0	85.0	Conductor	16	20
724.0	724.0	Surface	8-5/8	12-1/4
6,971.0	6,900.7	Production	5-1/2	7-7/8

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
654.0	654.0	Rustler		0.00	
827.0	827.0	Salado		0.00	
1,831.0	1,831.0	Tansill		0.00	
2,039.3	2,039.0	Yates		0.00	
2,339.3	2,337.0	Seven Rivers		0.00	
2,982.8	2,967.0	Queen		0.00	
3,406.7	3,381.0	Grayburg		0.00	
3,797.7	3,763.0	San Andres		0.00	
5,297.3	5,233.0	Glorieta		0.00	
5,376.1	5,311.0	Paddock		0.00	
5,716.8	5,649.0	Blinebry		0.00	
6,781.3	6,711.0	Tubb		0.00	

Proposed Directional Well Plan



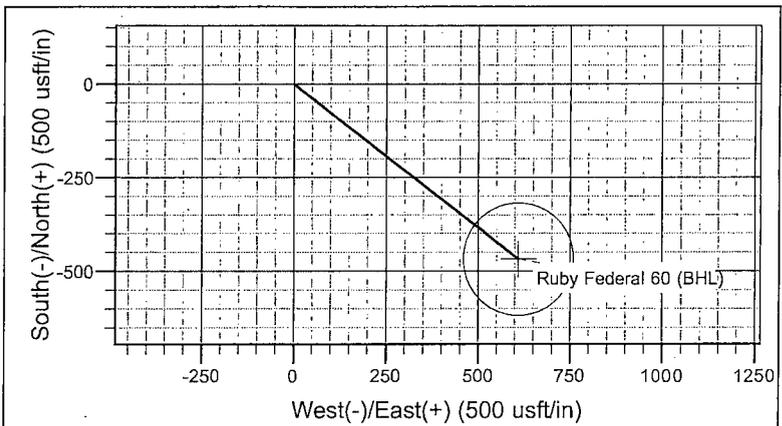
Project: Buckeye
 Site: Ruby Federal
 Well: Ruby Federal 60
 Wellbore: Ruby Federal 60
 Design: Plan Design

WELL DETAILS: Ruby Federal 60

+N/-S	+E/-W	Northing	Ground Level: Easting	3951.0 Latitude	Longitude
0.0	0.0	666545.40	661230.26	32° 49' 52.748 N	103° 48' 30.380 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1750.0	0.00	0.00	1750.0	0.0	0.0	0.00	0.00	0.0	
3	2557.7	12.12	127.51	2551.7	-51.8	67.5	1.50	127.51	85.1	
4	44596.3	12.12	127.51	4544.9	-312.4	406.9	0.00	0.00	513.0	
5	57019.4	0.00	0.00	6950.0	-467.8	609.4	0.50	180.00	768.2	Ruby Federal 60 (BHL)

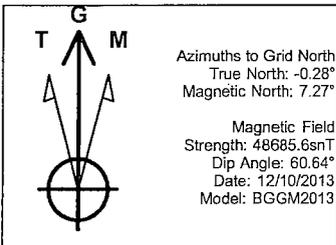


CASING DETAILS

TVD	MD	Name	Size
85.0	85.0	Conductor	16
740.0	740.0	Surface	8-5/8
6939.6	7009.0	Production	5-1/2

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
670.0	670.0	Rustler
855.0	855.0	Salado
1885.0	1885.0	Tansill
2020.0	2020.2	Yates
2350.0	2352.5	Seven Rivers
2985.0	3000.9	Queen
3395.0	3420.2	Grayburg
3770.0	3803.8	San Andres
5255.0	5318.2	Glorieta
5335.0	5399.0	Paddock
5675.0	5741.8	Blinbery
6750.0	6819.4	Tubb



Request for Variance

ConocoPhillips Company

Lease Number: NM LC 029405B

Well: Ruby Federal #60

Location: Sec. 18, T17S, R32E

Date: 2/11/2014

Request:

See
COA

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



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).

Nom. ID		Nom OD		Weight		Min Bend Radius		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	34.47
3-1/2	88.9	5.79	147.06	20.14	29.80	54	1371.6	5000	34.47



Fittings

RC4XS055
RC3XS055
RC4XS575

Flanges

R35 - 3-1/8 5000# API Type 6B
R31 - 3-1/8 3000# API Type 6B

Hammer Unions

All Union Configurations

Other

LP Threaded Connectio
Graylock
Custom Ends

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

ConocoPhillips Company
Well: Ruby Federal #60
Location: Sec. 18, T17S, R372E
Date: 2/11/2014

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 haul-off 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.

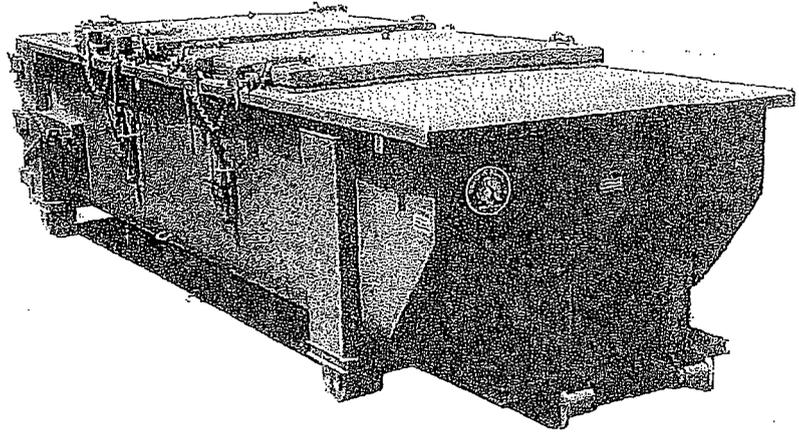
3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - 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

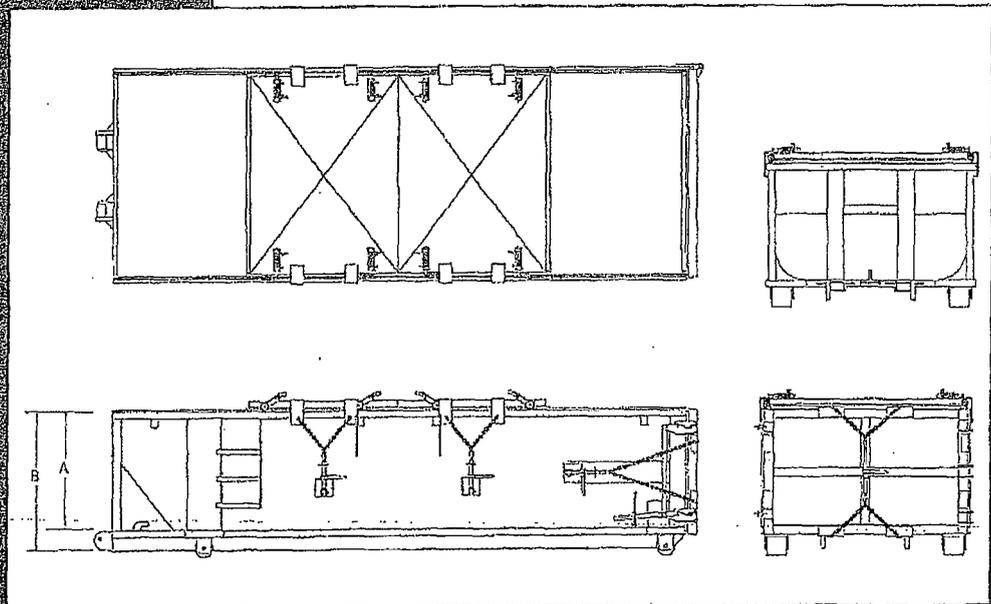
SPECIFICATIONS

Heavy Duty Split Metal Rolling Lid

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, inside liner hooks
DOOR: 3/16" PL with tubing frame
FRONT: 3/16" PL slant formed
PICK UP: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember
WHEELS: 10" DIA x 9" long with rease fittings
DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch
GASKETS: Extruded rubber seal with metal retainers
WELDS: All welds continuous except sub structure crossmembers
FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat
HYDROTESTING: Full capacity static test
DIMENSIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height
OPTIONS: Steel grit blast and special paint, Amptroll, 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) 60" x 82" openings with 8" divider centered on container
LATCH: (2) independent ratchet binders with chains per lid
GASKETS: Extruded rubber seal with metal retainers



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



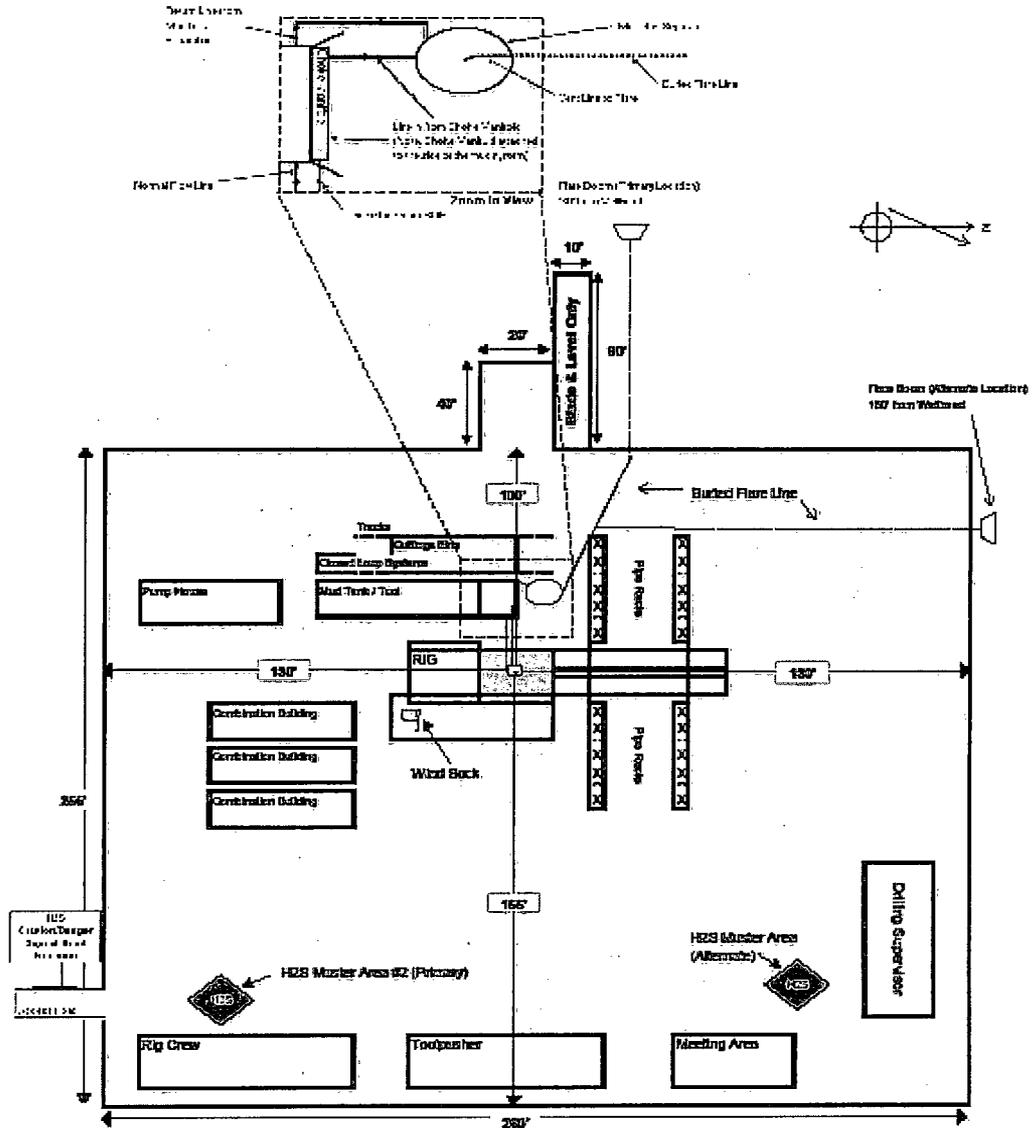
ConocoPhillips

Location Schematic and Rig Layout
for Closed Loop System

Reviewed by:
Steven Herrin
Drilling Engineer, ConocoPhillips Company
Date: updated January 2014

(PICTURE NOT TO SCALE)

NOTE: There are two muster areas (primary & secondary) depending on the prevailing wind direction. The muster area that is furthest upwind/crosswind will be the designated area for briefing and assessing the situation. In the situation that a full evacuation is deemed necessary, all personnel will exit the location on the main access road. Otherwise, if the main access road is blocked off, they will exit on the secondary road or walk off road in the upwind/crosswind 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.

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