

DATE IN 11/12/13	SUSPENSE	ENGINEER DB	LOGGED IN 11/13/13	TYPE NSL	PPRG 13317 44400
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication **Ruby Federal #25**
☒ NSL ☐ NSP ☐ SD
 Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____

Conoco Phillips
30-025-41017
Ruby Federal #25
H/17/175/32E

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or $\exists$ Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on the application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Susan B. Maunder
 Print or Type Name

Susan B. Maunder
 Signature

Senior Regulatory Specialist
 Title

11-6-13
 Date

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

RECEIVED
NOV 12 P 2:52



Susan B. Maunder
Sr. Regulatory Specialist
Phone: (281) 206-5281

ConocoPhillips Company
600 N. Dairy Ashford Rd., Office P10-4-4054
Houston, TX 77079-1175

November 5, 2013

State of New Mexico
Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

SUBJECT: REQUEST FOR UNORTHODOX LOCATION FOR RUBY FEDERAL #25

Dear Sirs,

ConocoPhillips Company respectfully requests a non-standard location exception to drill the Ruby Federal #25 well. The lease is recorded as NM LC 029405B. The well is located in UL H, 2210' from the north line and 1120' from the east line of Section 17, Township 17S, Range 32E, Lea County, New Mexico. The surface hole location is on the Emerald lease NM LC 060329 and the bottom hole is on the Ruby lease NM LC 029405B. The surface hole and bottom hole footages place the well closer than 330' from a Qtr/Qtr Section line.

The spacing units adjacent to UL H:

- UL A & I in Section 17 are ConocoPhillips Emerald lease (NM LC 060329)
- UL B, G, & J in Section 17 are ConocoPhillips Ruby lease (NM LC 029405B)
- UL E in Section 16

The bottom hole location is in Section 17, UL G.

The spacing units adjacent to UL G:

- UL A, H, & I in Section 17 are ConocoPhillips Emerald Lease
- UL B & J in Section 17 are ConocoPhillips Ruby Lease

All are 100% working interest. ConocoPhillips is 100% lessee and 100% working interest owner of the Ruby federal lease. The Emerald lease is also 100% working interest of ConocoPhillips. The granting of this exception will prevent waste and minimize surface disturbance.

This location was found to be the only one suitable for this well, that would allow us to reach our targeted production zone, avoid the hazard of the caliche pit, while still protecting sand dune habitat deemed critical by the Bureau of Land Management biologist.

Enclosed are the following documents in support of this request.

- Administrative Application Checklist
- Copy of the New Mexico Form C-102

A copy of this submittal is being sent to Bureau of Land Management, Carlsbad Field Office via certified return receipt.

If you have questions regarding this request, I can be reached at 432-688-6913 or via email at Susan.B.Maunders@conocophillips.com.

Sincerely,

A handwritten signature in black ink that reads "Susan B. Maunders". The signature is written in a cursive, flowing style.

Susan B. Maunders
Senior Regulatory Specialist
ConocoPhillips Company

RECEIVED OGD



Matthew S. Wasson
Staff Geologist
Phone: (281) 206-5252

2014 JAN 10 P 2: 22

ConocoPhillips Company
600 N. Dairy Ashford Rd., Office P10-4-4012
Houston, TX 77079-1175

January 6, 2014

Via email and US Postal Service

State of New Mexico
Oil Conservation Division
Attn: Mr. McMillan
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION NECESSARY TO APPROVE UNORTHODOX
LOCATION FOR RUBY FEDERAL #25

Dear Sir,

ConocoPhillips Company has respectfully requested a non-standard location exception to drill the Ruby Federal #25 well. The lease is recorded as NM LC 029405B. The well is located in UL H, 2210' from the north line and 1120' from the east line of Section 17, Township 17S, Range 32E, Lea County, New Mexico. The surface hole location is on the Emerald lease NM LC 060329 and the bottom hole is on the Ruby lease NM LC 029405B.

This letter serves to provide additional information the Engineering Bureau requires to approve our exception request. Our anticipated perforation interval is 5435'-6780' MD. This interval is entirely within UL G. Our planned location of the producing interval top is 2390' FNL and 1570' FEL of Section 17, Township 17S, and Range 32E.

All are 100% working interest. ConocoPhillips is 100% lessee and 100% working interest owner of the Ruby federal lease. The Emerald lease is also 100% working interest of ConocoPhillips. The granting of this exception will prevent waste and minimize surface disturbance.

This location was found to be the only one suitable for this well, that would allow us to reach our targeted production zone, avoid the hazard of the caliche pit, while still protecting sand dune habitat deemed critical by the Bureau of Land Management biologist.

If you have questions regarding this request, I can be reached at the telephone number above or via email at Matt.S.Wasson@conocophillips.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Matthew S. Wasson', written over a horizontal line.

Matthew S. Wasson
Staff Geologist
ConocoPhillips Company

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 746-1283 Fax: (505) 746-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-5450 Fax: (505) 476-5452

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-		Pool Code 44500	Pool Name Maljamar; Yeso West
Property Code 38653	Property Name RUBY FEDERAL		Well Number 25
OGRID No. 217817	Operator Name CONOCO PHILLIPS		Elevation 4022'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	17	17 S	32 E		2210	NORTH	1120	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	17	17 S	32 E		2390	NORTH	1570	EAST	LEA

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

N.: 670383.9 E.: 664810.7 NAD 27	N.: 670389.6 E.: 667448.3 NAD 27	N.: 670399.6 E.: 670085.5 NAD 27	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Susan B. Maunder</i> 11/5/13 Signature Date <i>Susan B. Maunder</i> Printed Name <i>Susan. B. Maunder@conocophillips.com</i> Email Address
N.: 667737.6 E.: 664828.7 NAD 27	N.: 665109.9 E.: 667480.1 NAD 27	N.: 665122.4 E.: 670117.5 NAD 27	

SURFACE LOCATION

Lat - N 32°50'10.01"
Long - W 103°47'01.28"
NMSPCE- N 668350.0
E 710157.1
(NAD-83)

Lat - N 32°50'09.58"
Long - W 103°46'59.46"
NMSPCE- N 668285.7
E 668978.8
(NAD-27)

PROPOSED BOTTOM HOLE LOCATION

Lat - N 32°50'07.24"
Long - W 103°47'06.57"
NMSPCE- N 668067.8
E 709707.6
(NAD-83)

Lat - N 32°50'06.81"
Long - W 103°47'04.75"
NMSPCE- N 668003.5
E 668529.2
(NAD-27)

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

[Signature]
Date Surveyed

[Signature]
Signature of Professional Surveyor

[Signature]
No. 7977

Certificate No. *[Signature]* L. Jones 7977

BASIN SURVEYS 28871

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.
NMLC029405B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
RUBY FEDERAL 25

2. Name of Operator
CONOCOPHILLIPS COMPANY

Contact: SUSAN MAUNDER
E-Mail: Susan.B.Maunder@conocophillips.com

9. API Well No.
30-025-41017

3a. Address
600 N. DAIRY ASHFORD RD
HOUSTON, TX 77079-1175

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

10. Field and Pool, or Exploratory
MALJAMAR;GRAYBURG/SANANDR

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 17 T17S R32E Mer NMP SWNE 1990FNL 2085FEL

11. County or Parish, and State
LEA COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ConocoPhillips Company respectfully requests approval to change the approved plan for this well.
The surface location had to be moved because of continuing development of the caliche pit to the north of the original stake. This request has been discussed with Cody Layton and Wesley Ingraham.

The new surface location is UL H, Sec. 17, T17S, R32E; 2210' FNL and 1120' FEL.

The bottom hole location remains the same as originally permitted.

Please see the attached documents supporting this request.

- 1 Updated plat package
- 2 Updated Drilling Plan
- 3 Updated Standard Drilling Plan (for Deviated wells)

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #225842 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Hobbs

Name (Printed/Typed) SUSAN MAUNDER

Title SENIOR REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 11/06/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice 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.		Office _____

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Website Image of Ruby and Emerald Lease Boundary
With Approximate Well Location

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT General Land Office Records



Search Documents

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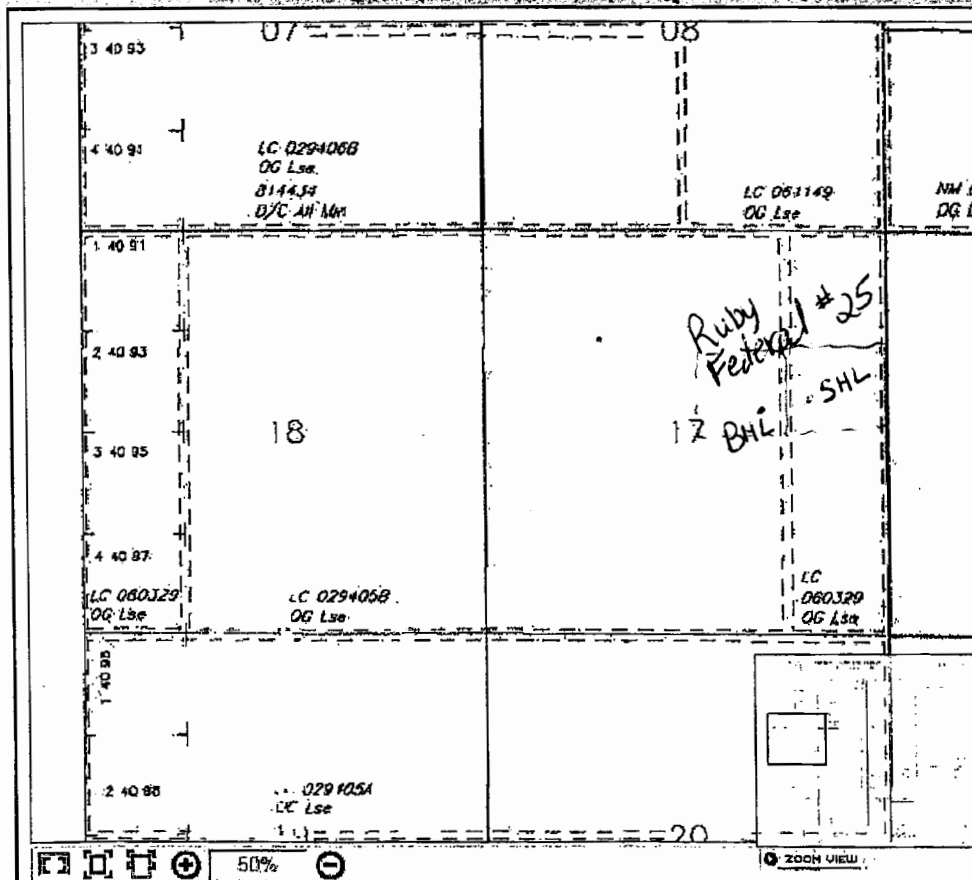
DM ID: 39839 Document Type: Oil and Gas State: New Mexico Posted Date: 8/7/2013

Land Status Record Details

Related Documents

Township / Range: 017.05 - 032.0E
Meridian: New Mexico Pm
State Office: New Mexico State Office
Pages: 1

Sheet: 1



JavaScript Viewer

Plugin Viewer

Basic Viewer



PDF

JP2

ConocoPhillips MCBU

Buckeye

Ruby Federal

Ruby Federal 25

Original Hole

Plan: Actual Plan

Standard Planning Report - Geographic

06 August, 2013

ConocoPhillips Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 25
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 4035.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 4035.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 25	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

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 25, Deviated Well					
Well Position	+N/-S	0.0 usft	Northing:	668,285.85 usft	Latitude:	32° 50' 9.580 N
	+E/-W	0.0 usft	Easting:	668,979.22 usft	Longitude:	103° 46' 59.460 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,022.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	9/21/2012	7.67	60.64	48,823

Design	Actual Plan				
Audit Notes:					
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	248.16

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	
1,973.0	0.00	0.00	1,973.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,706.0	11.00	237.89	2,701.5	-37.3	-59.4	1.50	1.50	0.00	237.89	
4,755.6	11.00	237.89	4,713.5	-245.0	-390.5	0.00	0.00	0.00	0.00	
5,488.6	0.00	0.00	5,442.0	-282.3	-449.9	1.50	-1.50	0.00	180.00	Ruby Federal 25 (Plat
7,101.6	0.00	0.00	7,055.0	-282.3	-449.9	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 25
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 4035.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 4035.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 25	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

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	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
85.0	0.00	0.00	85.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
Conductor										
100.0	0.00	0.00	100.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
200.0	0.00	0.00	200.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
300.0	0.00	0.00	300.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
400.0	0.00	0.00	400.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
500.0	0.00	0.00	500.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
600.0	0.00	0.00	600.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
700.0	0.00	0.00	700.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
789.0	0.00	0.00	769.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
Rustier										
800.0	0.00	0.00	800.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
839.0	0.00	0.00	839.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
Surface										
900.0	0.00	0.00	900.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
938.0	0.00	0.00	938.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
Salado										
1,000.0	0.00	0.00	1,000.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
1,973.0	0.00	0.00	1,973.0	0.0	0.0	668,285.85	668,979.22	32° 50' 9.580 N	103° 46' 59.460 W	
Tansill										
2,000.0	0.41	237.89	2,000.0	-0.1	-0.1	668,285.80	668,979.13	32° 50' 9.580 N	103° 46' 59.461 W	
2,100.0	1.91	237.89	2,100.0	-1.1	-1.8	668,284.72	668,977.43	32° 50' 9.569 N	103° 46' 59.481 W	
2,149.1	2.64	237.89	2,149.0	-2.2	-3.4	668,283.69	668,975.78	32° 50' 9.559 N	103° 46' 59.500 W	
Yates										
2,200.0	3.41	237.89	2,199.9	-3.6	-5.7	668,282.26	668,973.50	32° 50' 9.545 N	103° 46' 59.527 W	
2,300.0	4.91	237.89	2,299.6	-7.4	-11.8	668,278.41	668,967.37	32° 50' 9.507 N	103° 46' 59.599 W	
2,400.0	6.41	237.89	2,399.1	-12.7	-20.2	668,273.18	668,959.02	32° 50' 9.456 N	103° 46' 59.697 W	
2,436.1	6.95	237.89	2,435.0	-14.9	-23.8	668,270.94	668,955.46	32° 50' 9.434 N	103° 46' 59.739 W	
Seven Rivers										
2,500.0	7.91	237.89	2,498.3	-19.3	-30.7	668,266.56	668,948.47	32° 50' 9.391 N	103° 46' 59.822 W	
2,600.0	9.41	237.89	2,597.2	-27.3	-43.5	668,258.56	668,935.73	32° 50' 9.312 N	103° 46' 59.971 W	
2,700.0	10.91	237.89	2,695.6	-36.7	-58.4	668,249.19	668,920.79	32° 50' 9.220 N	103° 47' 0.147 W	
2,706.0	11.00	237.89	2,701.5	-37.3	-59.4	668,248.58	668,919.82	32° 50' 9.214 N	103° 47' 0.158 W	
2,800.0	11.00	237.89	2,793.8	-46.8	-74.6	668,239.05	668,904.64	32° 50' 9.121 N	103° 47' 0.337 W	
2,900.0	11.00	237.89	2,891.9	-56.9	-90.7	668,228.92	668,888.49	32° 50' 9.021 N	103° 47' 0.527 W	
3,000.0	11.00	237.89	2,990.1	-67.1	-106.9	668,218.78	668,872.33	32° 50' 8.922 N	103° 47' 0.717 W	
3,088.5	11.00	237.89	3,077.0	-76.0	-121.2	668,209.81	668,858.03	32° 50' 8.834 N	103° 47' 0.885 W	
Queen										
3,100.0	11.00	237.89	3,088.3	-77.2	-123.0	668,208.65	668,856.18	32° 50' 8.822 N	103° 47' 0.907 W	
3,200.0	11.00	237.89	3,186.4	-87.3	-139.2	668,198.51	668,840.02	32° 50' 8.723 N	103° 47' 1.097 W	
3,300.0	11.00	237.89	3,284.6	-97.5	-155.4	668,188.37	668,823.87	32° 50' 8.624 N	103° 47' 1.287 W	
3,400.0	11.00	237.89	3,382.8	-107.6	-171.5	668,178.24	668,807.71	32° 50' 8.524 N	103° 47' 1.477 W	
3,500.0	11.00	237.89	3,480.9	-117.8	-187.7	668,168.10	668,791.55	32° 50' 8.425 N	103° 47' 1.667 W	

ConocoPhillips

Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 25
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 4035.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 4035.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 25	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,515.3	11.00	237.89	3,496.0	-119.3	-190.2	668,166.55	668,789.08	32° 50' 8.409 N	103° 47' 1.696 W	
Grayburg										
3,600.0	11.00	237.89	3,579.1	-127.9	-203.8	668,157.98	668,775.40	32° 50' 8.325 N	103° 47' 1.857 W	
3,700.0	11.00	237.89	3,677.3	-138.0	-220.0	668,147.83	668,759.24	32° 50' 8.226 N	103° 47' 2.046 W	
3,800.0	11.00	237.89	3,775.4	-148.2	-236.1	668,137.69	668,743.09	32° 50' 8.126 N	103° 47' 2.236 W	
3,900.0	11.00	237.89	3,873.6	-158.3	-252.3	668,127.58	668,726.93	32° 50' 8.027 N	103° 47' 2.426 W	
3,909.6	11.00	237.89	3,883.0	-159.3	-253.8	668,126.58	668,725.39	32° 50' 8.017 N	103° 47' 2.445 W	
San Andres										
4,000.0	11.00	237.89	3,971.8	-168.4	-268.5	668,117.42	668,710.78	32° 50' 7.927 N	103° 47' 2.616 W	
4,100.0	11.00	237.89	4,069.9	-178.6	-284.6	668,107.28	668,694.62	32° 50' 7.828 N	103° 47' 2.806 W	
4,200.0	11.00	237.89	4,168.1	-188.7	-300.8	668,097.15	668,678.47	32° 50' 7.728 N	103° 47' 2.996 W	
4,300.0	11.00	237.89	4,266.2	-198.8	-316.9	668,087.01	668,662.31	32° 50' 7.629 N	103° 47' 3.186 W	
4,400.0	11.00	237.89	4,364.4	-209.0	-333.1	668,076.87	668,646.16	32° 50' 7.529 N	103° 47' 3.376 W	
4,500.0	11.00	237.89	4,462.6	-219.1	-349.2	668,066.74	668,630.00	32° 50' 7.430 N	103° 47' 3.566 W	
4,600.0	11.00	237.89	4,560.7	-229.3	-365.4	668,056.60	668,613.85	32° 50' 7.330 N	103° 47' 3.756 W	
4,700.0	11.00	237.89	4,658.9	-239.4	-381.5	668,046.47	668,597.69	32° 50' 7.231 N	103° 47' 3.946 W	
4,755.6	11.00	237.89	4,713.5	-245.0	-390.5	668,040.83	668,588.71	32° 50' 7.178 N	103° 47' 4.052 W	
4,800.0	10.33	237.89	4,757.1	-249.4	-397.5	668,036.46	668,581.75	32° 50' 7.133 N	103° 47' 4.133 W	
4,900.0	8.83	237.89	4,855.7	-258.2	-411.6	668,027.62	668,567.66	32° 50' 7.046 N	103° 47' 4.299 W	
5,000.0	7.33	237.89	4,954.7	-265.7	-423.5	668,020.15	668,555.76	32° 50' 6.973 N	103° 47' 4.439 W	
5,100.0	5.83	237.89	5,054.1	-271.8	-433.2	668,014.06	668,548.05	32° 50' 6.913 N	103° 47' 4.553 W	
5,200.0	4.33	237.89	5,153.7	-276.5	-440.7	668,009.36	668,538.55	32° 50' 6.867 N	103° 47' 4.641 W	
5,300.0	2.83	237.89	5,253.5	-279.8	-446.0	668,006.04	668,533.26	32° 50' 6.834 N	103° 47' 4.704 W	
5,382.6	1.59	237.89	5,336.0	-281.5	-448.7	668,004.35	668,530.57	32° 50' 6.818 N	103° 47' 4.735 W	
Glorieta										
5,400.0	1.33	237.89	5,353.4	-281.8	-449.0	668,004.11	668,530.19	32° 50' 6.815 N	103° 47' 4.740 W	
5,488.6	0.00	0.00	5,442.0	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
Paddock										
5,500.0	0.00	0.00	5,453.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
5,600.0	0.00	0.00	5,553.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
5,700.0	0.00	0.00	5,653.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
5,800.0	0.00	0.00	5,753.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
5,834.6	0.00	0.00	5,788.0	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
Blinberry										
5,900.0	0.00	0.00	5,853.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,000.0	0.00	0.00	5,953.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,100.0	0.00	0.00	6,053.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,200.0	0.00	0.00	6,153.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,300.0	0.00	0.00	6,253.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,400.0	0.00	0.00	6,353.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,500.0	0.00	0.00	6,453.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,600.0	0.00	0.00	6,553.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,700.0	0.00	0.00	6,653.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,800.0	0.00	0.00	6,753.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
6,846.6	0.00	0.00	6,800.0	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
Tubb										
6,900.0	0.00	0.00	6,853.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
7,000.0	0.00	0.00	6,953.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
7,092.0	0.00	0.00	7,045.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
Production										
7,100.0	0.00	0.00	7,053.4	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
7,101.6	0.00	0.00	7,055.0	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W	
TD										

ConocoPhillips Planning Report - Geographic

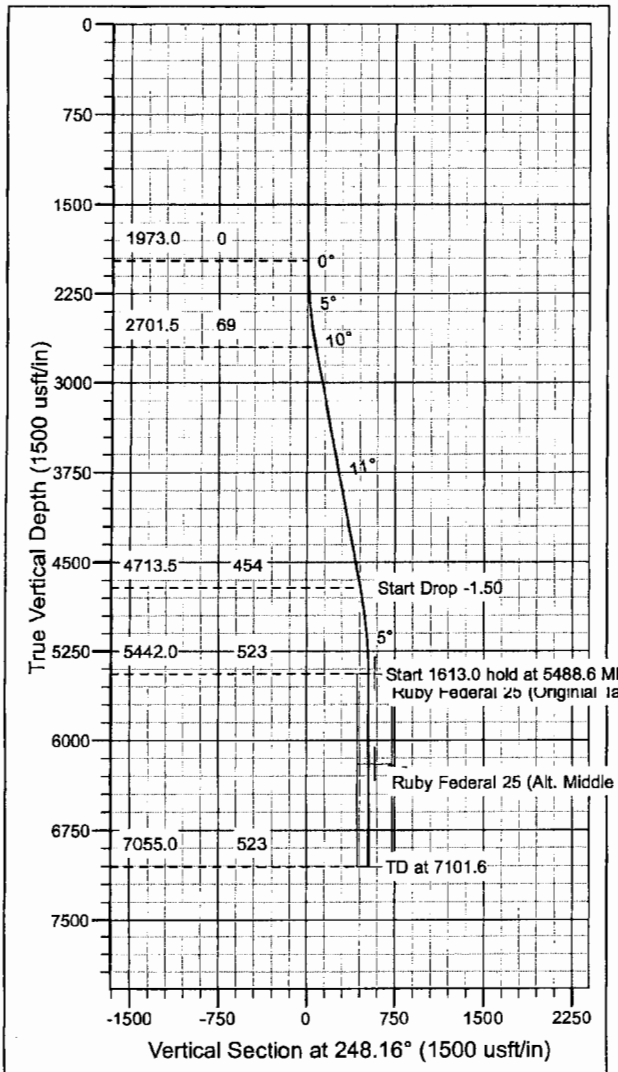
Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Ruby Federal 25
Company:	ConocoPhillips MCBU	TVD Reference:	RKB @ 4035.0usft (PD 822)
Project:	Buckeye	MD Reference:	RKB @ 4035.0usft (PD 822)
Site:	Ruby Federal	North Reference:	Grid
Well:	Ruby Federal 25	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Ruby Federal 25 (Origin)	0.00	0.00	5,442.0	-215.0	-536.4	668,070.82	668,442.81	32° 50' 7.480 N	103° 47' 5.760 W
- plan misses target center by 109.6usft at 5488.6usft MD (5442.0 TVD, -282.3 N, -449.9 E)									
- Circle (radius 150.0)									
Ruby Federal 25 (Plat Bl)	0.00	0.00	5,442.0	-282.3	-449.9	668,003.57	668,529.32	32° 50' 6.810 N	103° 47' 4.750 W
- plan hits target center									
- Circle (radius 0.0)									
Ruby Federal 25 (Alt. MI)	0.00	0.00	6,200.0	-215.0	-536.4	668,070.82	668,442.81	32° 50' 7.480 N	103° 47' 5.760 W
- plan misses target center by 109.6usft at 6246.6usft MD (6200.0 TVD, -282.3 N, -449.9 E)									
- Point									

Casing Points					
Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter	
(usft)	(usft)	Name	(")	(")	
85.0	85.0	Conductor	16	20	
839.0	839.0	Surface	8-5/8	12-1/4	
7,092.0	7,045.4	Production	5-1/2	7-7/8	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
769.0	769.0	Rustler		0.00		
938.0	938.0	Salado		0.00		
1,973.0	1,973.0	Tansill		0.00		
2,149.1	2,149.0	Yates		0.00		
2,436.1	2,435.0	Seven Rivers		0.00		
3,088.5	3,077.0	Queen		0.00		
3,515.3	3,496.0	Grayburg		0.00		
3,909.6	3,883.0	San Andres		0.00		
5,382.6	5,336.0	Glorieta		0.00		
5,488.6	5,442.0	Paddock		0.00		
5,834.6	5,788.0	Blinberry		0.00		
6,846.6	6,800.0	Tubb		0.00		
7,101.6	7,055.0	TD		0.00		

Proposed Directional Well Plan



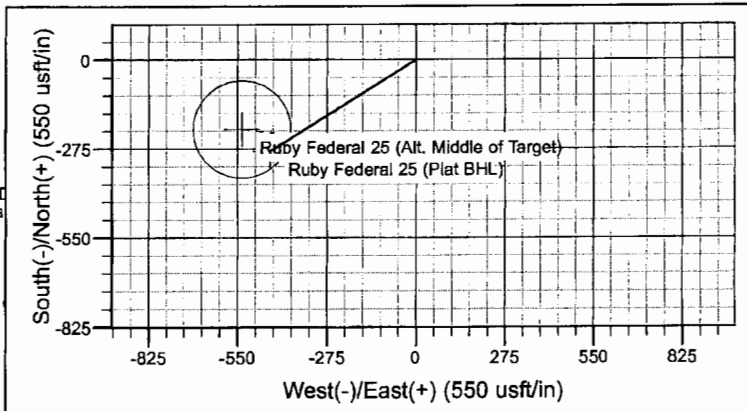
Project: Buckeye
Site: Ruby Federal
Well: Ruby Federal 25
Wellbore: Original Hole
Design: Actual Plan

WELL DETAILS: Ruby Federal 25

+N/-S	+E/-W	Northing	Ground Level:	4022.0	Latitude	Longitude
0.0	0.0	668285.84	Easting	668979.21	32° 50' 9.580 N	103° 46' 59.460 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	1973.0	0.00	0.00	1973.0	0.0	0.0	0.00	0.00	0.0	
3	2706.0	11.00	237.89	2701.5	-37.3	-59.4	1.50	237.89	69.0	
4	4755.6	11.00	237.89	4713.5	-245.0	-390.5	0.00	0.00	453.7	
5	5488.6	0.00	0.00	5442.0	-282.3	-449.9	1.50	180.00	522.6	Ruby Federal 25 (Plat BHL)
6	7101.6	0.00	0.00	7055.0	-282.3	-449.9	0.00	0.00	522.6	



CASING DETAILS

TVD	MD	Name	Size
85.0	85.0	Conductor	16
839.0	839.0	Surface	8-5/8
7045.4	7092.0	Production	5-1/2

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
769.0	769.0	Rustler
938.0	938.0	Salado
1973.0	1973.0	Tansill
2149.0	2149.1	Yates
2435.0	2436.1	Seven Rivers
3077.0	3088.5	Queen
3496.0	3515.3	Grayburg
3883.0	3909.6	San Andres
5336.0	5382.6	Glorieta
5442.0	5488.6	Paddock
5788.0	5834.6	Blinberry
6800.0	6846.6	Tubb
7055.0	7101.6	TD

