

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

Hobbs

HOBBS OGD

SUBMIT IN TRIPLICATE - Other instructions on page 2

JAN 16 2018

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC029405B
2. Name of Operator CONOCOPHILLIPS COMPANY Contact: RHONDA ROGERS E-Mail: rogerr@conocophillips.com		6. If Indian, Allottee or Tribe Name
3a. Address P. O. BOX 51810 MIDLAND, TX 79710	3b. Phone No. (include area code) Ph: 432-688-9174	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 18 T17S R32E Mer NMP NWNE 990FNL 2260FEL		8. Well Name and No. RUBY FEDERAL 100H
		9. API Well No. 30-025-43370
		10. Field and Pool or Exploratory Area MALJAMAR; GB-SA
		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 COMPLETED THIS WELL PER ATTACHMENT.
ATTACHED IS A CURRENT WELLBORE SCHEMATIC
ATTACHED IS A DD SURVEY
ATTACHED IS AN "AS DRILLED PLAT"
GAS CAPTURE PLAN ONLINE

14. I hereby certify that the foregoing is true and correct. Electronic Submission #396469 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Hobbs Committed to AFMSS for processing by JENNIFER SANCHEZ on 12/20/2017 ()	
Name (Printed/Typed) RHONDA ROGERS	Title STAFF REGULATORY TECHNICIAN
Signature (Electronic Submission)	Date 11/30/2017

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.

(Instructions on page 2)

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

Accepted for Record Only

NMB/OCN 1/18/2018

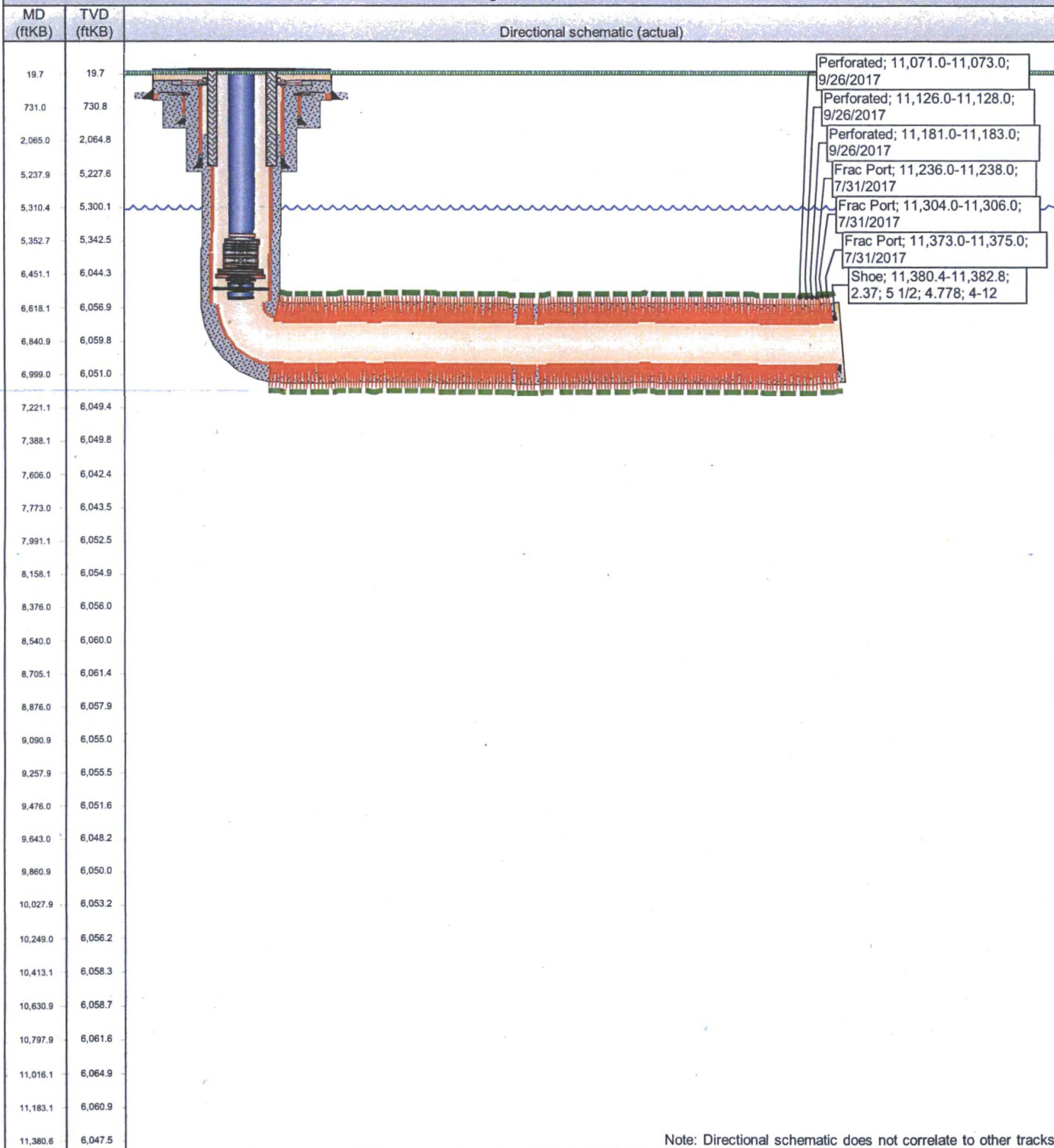


Schematic - Current

RUBY FEDERAL 100H

District PERMIAN CONVENTIONAL	Field Name MALJAMAR	API / UWI 3002543370	County LEA	State/Province NEW MEXICO
Original Spud Date 6/1/2017	Surface Legal Location 018-017S-032E	East/West Distance (ft) 2,260.00	East/West Reference FEL	North/South Distance (ft) 990.00
North/South Reference FNL				

HORIZONTAL - Original Hole, 11/1/2017 7:00:00 AM



Note: Directional schematic does not correlate to other tracks.

Ruby Federal 100H

30-025-43370

7/26/17 PT PERFORMED ON PRODUCTION CSG TO 7100# HIGH/15 MINS – TEST GOOD.

7/31/17 PERF STAGE 1 F/11,375'-11,236'. ACID PUMP 2000 GALS 15% HCL.

9/26/17 FRAC PERFS W/33950# 100 MESH, 41250# 40/70 WHITE, 26250# 40/70 ATLAS CRC.

PERF STAGE 2 F/11183'-11071'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87700# 40/70 WHITE, 22200# 40/70 ATLAS CRC.

PERF STAGE 3 F/11018'-10906'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 88125# 40/70 WHITE, 22200# 40/70 ATLAS CRC.

PERF STAGE 4 F/10852'-10741'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 5 F/10688'-10576'.

9/27/17 ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87700# 40/70 WHITE, 22200# 40/70 ATLAS CRC.

PERF STAGE 6 F/10523'-10411'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87975# 40/70 WHITE, 23000# 40/70 ATLAS CRC.

PERF STAGE 7 F/10358'-10249'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 180500# 40/70 ATLAS CRC.

PERF STAGE 8 F/10193'-10083'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 23000# 40/70 ATLAS CRC.

PERF STAGE 9 F/10028'-9916'.

9/28/17 ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 23000# 40/70 ATLAS CRC.

PERF STAGE 10 F/9863-9751'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 88100# 40/70 WHITE, 22800# 40/70 ATLAS CRC.

PERF STAGE 11 F/9696'-9586'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 86900# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 12 F/9533'-9421'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 13 F/9366-9256'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 14500# 40/70 ATLAS CRC.

PERF STAGE 14 F/9203'-9091'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 15 F/9038'-8926'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87420# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

9/29/17 PERF STAGE 16 F/8876'-8761'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 17 F/8706'-8596'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 18 F/8540'-8431'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87640# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 19 F/8378'-8268'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87780# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 20 F/8213'-8107'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 21 F/8048'-7933'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 22 F/7883'-7771'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 89120# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

9/30/17 PERF STAGE 23 F/7718'-7606'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 88060# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 24 F/7553'-7441'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 25 F/7388'-7276'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 26 F/7223'-7111'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87500# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 27 F/4058'-6946'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87120# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 28 F/6893'-6781'. ACID 3000 GALS 15% HCL. FRAC W/ W/70000# 100 MESH, 87120# 40/70 WHITE, 22000# 40/70 ATLAS CRC.

PERF STAGE 29 F/6728'-6617'. ACID 3000 GALS 15% HCL. FRAC W/ W/64695# 100 MESH, 97360# 40/70 WHITE, 21040# 40/70 ATLAS CRC.

PERF STAGE 30 F/6563'-6451'.

10/1/17 ACID 3000 GALS 15% HCL. FRAC W/ W/64695# 100 MESH, 97360# 40/70 WHITE, 21040# 40/70 ATLAS CRC.

11/1/17 RIH W/165 JTS 2 7/8", 6.5#, L-80 EUE8RD & SET @ 5456'. RDMO

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) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Arco, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

JUL 20 2016

"As drilled Plat"

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 49370	² Pool Code 44500	³ Pool Name Maljamar, Yeso West
⁴ Property Code 38653	⁵ Property Name RUBY FEDERAL	⁶ Well Number 100H
⁷ OGRD No. 217817	⁸ Operator Name ConocoPhillips Company	⁹ Elevation 3979.4'

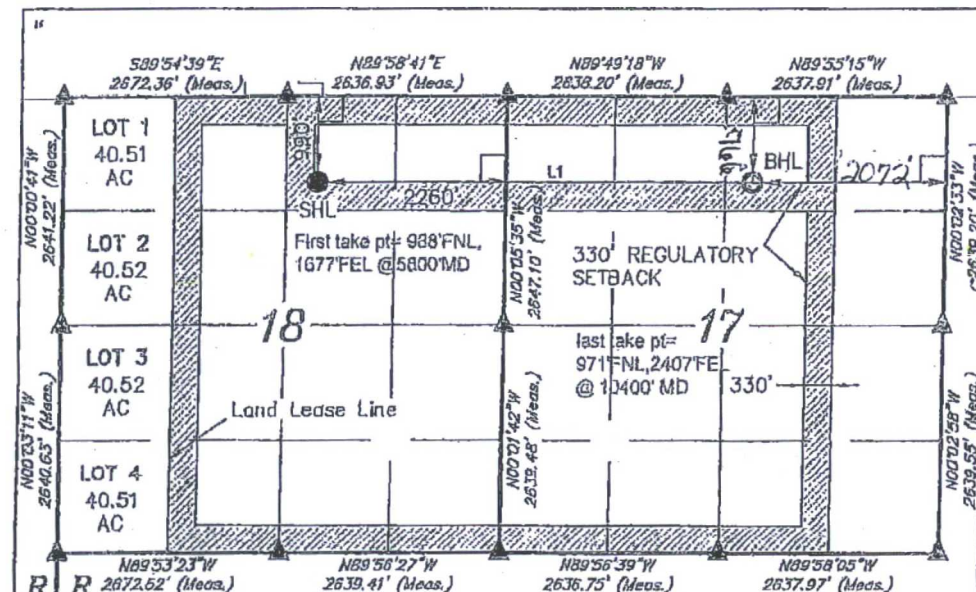
"Surface Location"

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
B	18	17S	32E		990	NORTH	2260	EAST	LEA

"Bottom Hole Location If Different From Surface"

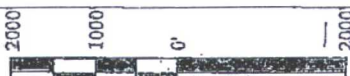
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
B	17	17S	32E		766	NORTH	2072	EAST	LEA
¹² Dedicated Acres 200	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



R R
3132
E E

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°54'57"E	5225.22'



SCALE
DRAWN BY: T.E. 04-16-15

NAD 83 (SURFACE LOCATION)	NAD 83 (BOTTOM HOLE)
LATITUDE = 32°50'21.18" (32.839217)	LATITUDE = 32°50'21.11" (32.839197)
LONGITUDE = 103°48'16.46" (103.804572)	LONGITUDE = 103°47'15.24" (103.787567)
NAD 27 (SURFACE LOCATION)	NAD 27 (BOTTOM HOLE)
LATITUDE = 32°50'20.75" (32.839097)	LATITUDE = 32°50'20.68" (32.839078)
LONGITUDE = 103°48'14.64" (103.804067)	LONGITUDE = 103°47'13.42" (103.787061)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 669466.00 E: 708961.08	N: 669466.00 E: 708961.08
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 669382.98 E: 662558.79	N: 669401.70 E: 667782.75

"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 undivided 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.

Phanda Rogers 11/30/15
Signature Date

Phanda Rogers
Printed Name

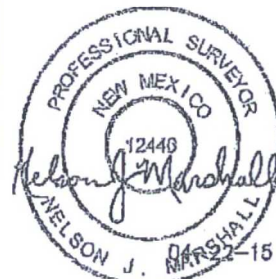
rogers@conocophillips.com
E-mail Address

"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.

April 06, 2015

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

A = SECTION CORNERS LOCATED.



7821 Will Rogers Blvd.
Fort Worth, Texas 76140

817.568.1038 (office)
817.568.1499 (fax)
www.msenergyservices.com

Survey Company: MS Energy Services
MWD Surveyor Name: Paul Royar
Survey Type: MWD
Operating Company: ConocoPhillips Company
Well Name & Number: Ruby Federal 100H
API Number: 30-025-43370
Surveyed Depths: 175' – 11,322' MD

Dates Performed: 05/30/2017 – 06/19/2017
Location: Lea County, NM
Job Number: DDMO-170491

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Energy Services; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Energy Services.

Digitally signed by: Paul Royar
Title: MWD Field Specialist
Date: 07-17-2017
Email: proyar@msenergyservices.com

Company:		ConocoPhillips Company												
Well Name:		Ruby Federal 100H												
Location:		Lea County, NM												
Rig:		Trinidad #417					Magnetic Declination:		6.86		REFERENCED TO GRID NORTH			
Job Number:		DDMO-170491												
API #:		30-025-43370												
Vertical Section Azimuth:					89.80			Proposed Direction:		89.80				
Survey Calculation Method:					Minimum Curvature									
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	11,400		95.1		87.5		6045.78		223.62		5464.21		5464.96	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
TIE IN	0	0.00	0.00	0.00	0.00	0.00				0.00				
1	175	1.70	337.90	174.97	2.41	-0.98	-0.97	2.60	337.90	0.97	0.97			
2	362	1.50	342.20	361.90	7.31	-2.77	-2.74	7.81	339.25	0.12	-0.11			
3	549	1.00	354.90	548.86	11.26	-3.66	-3.62	11.84	341.99	0.30	-0.27			
4	729	0.70	333.60	728.84	13.81	-4.29	-4.24	14.46	342.74	0.24	-0.17			
5	857	0.50	24.00	856.83	15.02	-4.41	-4.36	15.66	343.64	0.42	-0.16			
6	1,045	0.60	13.70	1044.82	16.73	-3.84	-3.79	17.16	347.06	0.07	0.05			
7	1,234	0.30	37.50	1233.82	18.08	-3.31	-3.25	18.38	349.63	0.18	-0.16			
8	1,423	0.20	70.80	1422.81	18.58	-2.70	-2.63	18.78	351.75	0.09	-0.05			
9	1,612	0.30	43.90	1611.81	19.05	-2.04	-1.97	19.16	353.88	0.08	0.05			
10	1,801	0.40	343.70	1800.81	20.04	-1.88	-1.81	20.13	354.63	0.19	0.05			
11	1,990	0.20	238.20	1989.81	20.50	-2.35	-2.28	20.63	353.46	0.26	-0.11			
12	2,111	0.20	300.20	2110.81	20.49	-2.71	-2.64	20.67	352.46	0.17	0.00			
13	2,175	0.40	308.00	2174.81	20.68	-2.98	-2.91	20.90	351.79	0.32	0.31			
14	2,237	0.40	312.70	2236.81	20.96	-3.31	-3.24	21.23	351.02	0.05	0.00			
15	2,301	0.40	306.90	2300.80	21.25	-3.66	-3.58	21.56	350.24	0.06	0.00			
16	2,363	0.40	304.40	2362.80	21.50	-4.01	-3.93	21.87	349.44	0.03	0.00			
17	2,426	0.40	314.10	2425.80	21.78	-4.35	-4.27	22.21	348.71	0.11	0.00			
18	2,489	0.50	318.20	2488.80	22.14	-4.69	-4.61	22.63	348.04	0.17	0.16			
19	2,553	0.60	318.20	2552.80	22.60	-5.10	-5.02	23.16	347.29	0.16	0.16			
20	2,616	0.60	326.00	2615.79	23.12	-5.50	-5.42	23.76	346.61	0.13	0.00			
21	2,679	0.70	329.50	2678.79	23.72	-5.88	-5.80	24.44	346.07	0.17	0.16			
22	2,742	1.20	325.50	2741.78	24.60	-6.45	-6.36	25.43	345.30	0.80	0.79			
23	2,805	1.80	321.40	2804.76	25.91	-7.44	-7.35	26.96	343.98	0.97	0.95			
24	2,868	1.90	331.70	2867.72	27.61	-8.55	-8.46	28.90	342.78	0.55	0.16			
25	2,931	3.10	338.10	2930.66	30.11	-9.68	-9.58	31.62	342.17	1.95	1.90			
26	2,994	3.50	332.30	2993.56	33.39	-11.21	-11.10	35.22	341.44	0.83	0.63			
27	3,057	4.40	331.30	3056.41	37.21	-13.27	-13.14	39.51	340.38	1.43	1.43			
28	3,119	4.20	332.80	3118.23	41.32	-15.45	-15.30	44.11	339.50	0.37	-0.32			
29	3,182	4.90	328.90	3181.04	45.67	-17.89	-17.73	49.05	338.61	1.21	1.11			
30	3,245	5.60	323.40	3243.77	50.44	-21.11	-20.94	54.69	337.29	1.37	1.11			
31	3,308	5.50	325.60	3306.48	55.40	-24.65	-24.46	60.64	336.01	0.37	-0.16			
32	3,371	5.60	319.20	3369.18	60.22	-28.37	-28.16	66.57	334.78	0.99	0.16			
33	3,434	6.10	312.20	3431.85	64.80	-32.86	-32.63	72.65	333.11	1.38	0.79			

Company:		ConocoPhillips Company												
Well Name:		Ruby Federal 100H												
Location:		Lea County, NM												
Rig:		Trinidad #417					Magnetic Declination:		6.86		REFERENCED TO GRID NORTH			
Job Number:		DDMO-170491												
API #:		30-025-43370												
Vertical Section Azimuth:				89.80		Proposed Direction:		89.80						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	11,400		95.1		87.5		6045.78		223.62		5464.21		5464.96	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
34	3,497	6.10	313.70	3494.50	69.36	-37.76	-37.51	78.97		331.44	0.25	0.00		
35	3,560	6.10	313.90	3557.14	73.99	-42.59	-42.33	85.37		330.08	0.03	0.00		
36	3,623	6.10	314.10	3619.78	78.64	-47.40	-47.13	91.82		328.92	0.03	0.00		
37	3,686	6.10	313.80	3682.43	83.29	-52.22	-51.93	98.31		327.91	0.05	0.00		
38	3,749	6.20	309.60	3745.06	87.77	-57.26	-56.95	104.80		326.88	0.73	0.16		
39	3,812	6.40	309.60	3807.68	92.18	-62.59	-62.26	111.42		325.82	0.32	0.32		
40	3,875	6.20	309.90	3870.30	96.60	-67.90	-67.56	118.08		324.90	0.32	-0.32		
41	3,938	6.30	310.00	3932.93	101.00	-73.16	-72.81	124.72		324.08	0.16	0.16		
42	4,001	6.40	312.40	3995.54	105.59	-78.40	-78.03	131.52		323.41	0.45	0.16		
43	4,064	6.40	312.20	4058.15	110.32	-83.60	-83.21	138.42		322.85	0.04	0.00		
44	4,127	6.40	312.40	4120.76	115.05	-88.79	-88.39	145.32		322.34	0.04	0.00		
45	4,191	6.40	310.50	4184.36	119.77	-94.14	-93.72	152.34		321.83	0.33	0.00		
46	4,253	6.30	309.20	4245.98	124.16	-99.40	-98.97	159.05		321.32	0.28	-0.16		
47	4,317	6.00	305.20	4309.61	128.31	-104.85	-104.41	165.70		320.74	0.82	-0.47		
48	4,380	5.60	301.60	4372.29	131.82	-110.16	-109.70	171.79		320.11	0.86	-0.63		
49	4,443	5.70	303.40	4434.98	135.15	-115.39	-114.92	177.71		319.51	0.32	0.16		
50	4,506	5.10	313.00	4497.70	138.78	-120.05	-119.57	183.50		319.14	1.72	-0.95		
51	4,569	4.90	314.60	4560.46	142.58	-124.02	-123.52	188.97		318.98	0.39	-0.32		
52	4,631	4.90	313.20	4622.24	146.25	-127.83	-127.32	194.25		318.85	0.19	0.00		
53	4,694	4.90	313.60	4685.01	149.95	-131.74	-131.22	199.60		318.70	0.05	0.00		
54	4,757	5.00	315.40	4747.77	153.76	-135.62	-135.08	205.02		318.59	0.29	0.16		
55	4,820	4.70	312.20	4810.55	157.45	-139.46	-138.91	210.33		318.47	0.64	-0.48		
56	4,883	4.40	311.90	4873.35	160.80	-143.17	-142.61	215.30		318.32	0.48	-0.48		
57	4,946	4.30	309.60	4936.17	163.92	-146.79	-146.21	220.04		318.16	0.32	-0.16		
58	5,009	3.90	301.60	4999.01	166.55	-150.43	-149.85	224.43		317.91	1.11	-0.63		
59	5,072	3.10	291.20	5061.89	168.28	-153.84	-153.26	228.01		317.57	1.62	-1.27		
60	5,135	2.40	283.90	5124.82	169.22	-156.71	-156.12	230.64		317.20	1.24	-1.11		
61	5,198	1.30	274.90	5187.78	169.60	-158.71	-158.11	232.27		316.90	1.80	-1.75		
62	5,261	0.70	279.10	5250.77	169.72	-159.80	-159.20	233.11		316.72	0.96	-0.95		
63	5,325	0.70	268.10	5314.77	169.77	-160.57	-159.98	233.68		316.59	0.21	0.00		
64	5,388	0.70	278.00	5377.76	169.81	-161.34	-160.75	234.23		316.46	0.19	0.00		
65	5,461	1.90	112.90	5450.75	169.40	-160.67	-160.08	233.47		316.52	3.54	1.64		
66	5,524	9.50	110.30	5513.39	167.19	-154.82	-154.24	227.86		317.20	12.07	12.06		
67	5,555	13.80	110.00	5543.75	165.03	-148.94	-148.37	222.31		317.93	13.87	13.87		

Company:		ConocoPhillips Company										
Well Name:		Ruby Federal 100H										
Location:		Lea County, NM										
Rig:		Trinidad #417					Magnetic Declination:		6.86		REFERENCED TO GRID NORTH	
Job Number:		DDMO-170491										
API #:		30-025-43370										
Vertical Section Azimuth:			89.80			Proposed Direction:		89.80				
Survey Calculation Method:			Minimum Curvature									
PTB:	MD	INC	AZM	TVD	N/S	E/W	VS					
	11,400	95.1	87.5	6045.78	223.62	5464.21	5464.96					
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
68	5,586	17.20	107.90	5573.62	162.36	-141.11	-140.54	215.11	319.01	11.11	10.97	
69	5,618	18.60	111.30	5604.07	159.05	-131.85	-131.29	206.59	320.34	5.46	4.38	
70	5,649	21.60	107.70	5633.18	155.52	-121.80	-121.26	197.54	321.93	10.46	9.68	
71	5,681	24.70	103.40	5662.60	152.18	-109.68	-109.15	187.59	324.22	11.03	9.69	
72	5,713	28.50	101.50	5691.21	149.10	-95.69	-95.17	177.17	327.31	12.17	11.88	
73	5,744	32.40	98.80	5717.93	146.36	-80.23	-79.72	166.91	331.27	13.33	12.58	
74	5,776	36.00	95.70	5744.39	144.11	-62.39	-61.89	157.04	336.59	12.50	11.25	
75	5,807	39.30	93.40	5768.94	142.62	-43.52	-43.02	149.12	343.03	11.57	10.65	
76	5,838	41.70	91.20	5792.51	141.83	-23.41	-22.91	143.74	350.63	9.01	7.74	
77	5,870	45.00	89.80	5815.77	141.64	-1.45	-0.95	141.65	359.41	10.74	10.31	
78	5,902	48.00	88.80	5837.80	141.93	21.76	22.25	143.59	8.72	9.64	9.38	
79	5,933	51.60	87.80	5857.81	142.64	45.42	45.92	149.70	17.66	11.87	11.61	
80	5,965	53.30	87.50	5877.31	143.68	70.77	71.27	160.16	26.22	5.36	5.31	
81	5,996	55.60	86.40	5895.33	145.02	95.95	96.46	173.89	33.49	7.96	7.42	
82	6,028	56.70	86.10	5913.15	146.76	122.47	122.98	191.15	39.84	3.52	3.44	
83	6,091	62.30	85.90	5945.12	150.55	176.60	177.12	232.06	49.55	8.89	8.89	
84	6,154	68.40	84.80	5971.38	155.20	233.64	234.18	280.49	56.40	9.81	9.68	
85	6,217	71.80	86.00	5992.82	159.95	292.68	293.24	333.53	61.34	5.69	5.40	
86	6,280	74.10	86.00	6011.29	164.15	352.76	353.33	389.08	65.05	3.65	3.65	
87	6,343	77.00	87.00	6027.01	167.87	413.65	414.23	446.41	67.91	4.85	4.60	
88	6,406	81.50	89.80	6038.76	169.59	475.49	476.08	504.83	70.37	8.37	7.14	
89	6,469	84.50	91.10	6046.44	169.09	538.01	538.60	563.96	72.55	5.18	4.76	
90	6,531	85.90	91.10	6051.63	167.91	599.78	600.37	622.84	74.36	2.26	2.26	
91	6,587	86.70	91.80	6055.24	166.49	655.65	656.22	676.46	75.75	1.90	1.43	
92	6,649	87.30	91.90	6058.49	164.49	717.53	718.10	736.14	77.09	0.98	0.97	
93	6,712	88.70	91.70	6060.68	162.52	780.46	781.02	797.20	78.24	2.24	2.22	
94	6,775	90.20	91.80	6061.29	160.59	843.43	843.98	858.58	79.22	2.39	2.38	
95	6,838	92.20	91.10	6059.97	159.00	906.39	906.94	920.23	80.05	3.36	3.17	
96	6,901	94.00	90.60	6056.56	158.06	969.29	969.83	982.09	80.74	2.97	2.86	
97	6,963	93.10	88.90	6052.72	158.33	1031.16	1031.71	1043.25	81.27	3.10	-1.45	
98	7,026	92.30	88.20	6049.76	159.93	1094.07	1094.62	1105.70	81.68	1.69	-1.27	
99	7,090	91.00	88.10	6047.91	161.99	1158.01	1158.57	1169.29	82.04	2.04	-2.03	
100	7,153	89.20	87.30	6047.80	164.52	1220.96	1221.52	1231.99	82.33	3.13	-2.86	
101	7,216	88.10	86.30	6049.29	168.04	1283.84	1284.42	1294.79	82.54	2.36	-1.75	

Company:		ConocoPhillips Company													
Well Name:		Ruby Federal 100H													
Location:		Lea County, NM													
Rig:		Trinidad #417				Magnetic Declination:		6.86		REFERENCED TO GRID NORTH					
Job Number:		DDMO-170491													
API #:		30-025-43370													
Vertical Section Azimuth:		89.80				Proposed Direction:		89.80							
Survey Calculation Method:		Minimum Curvature													
PTB:		MD		INC		AZM		TVD		N/S		E/W		VS	
		11,400		95.1		87.5		6045.78		223.62		5464.21		5464.96	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'				
102	7,342	90.30	86.30	6051.05	176.17	1409.56	1410.16	1420.52	82.88	1.75	1.75				
103	7,468	92.80	86.10	6047.64	184.51	1535.22	1535.86	1546.27	83.15	1.99	1.98				
104	7,594	91.90	85.60	6042.47	193.62	1660.79	1661.45	1672.03	83.35	0.82	-0.71				
105	7,720	89.10	85.70	6041.37	203.18	1786.41	1787.10	1797.92	83.51	2.22	-2.22				
106	7,846	86.40	89.60	6046.32	208.34	1912.17	1912.88	1923.48	83.78	3.76	-2.14				
107	7,971	88.40	89.60	6051.99	209.22	2037.03	2037.75	2047.74	84.14	1.60	1.60				
108	8,097	88.90	91.10	6054.96	208.45	2162.99	2163.70	2173.01	84.50	1.25	0.40				
109	8,223	91.30	90.80	6054.74	206.36	2288.96	2289.67	2298.24	84.85	1.92	1.90				
110	8,349	88.20	89.70	6055.29	205.81	2414.94	2415.64	2423.69	85.13	2.61	-2.46				
111	8,475	88.80	89.00	6058.59	207.24	2540.89	2541.60	2549.33	85.34	0.73	0.48				
112	8,601	88.70	91.00	6061.34	207.24	2666.85	2667.56	2674.89	85.56	1.59	-0.08				
113	8,727	91.20	90.80	6061.45	205.26	2792.83	2793.53	2800.36	85.80	1.99	1.98				
114	8,853	91.50	90.60	6058.48	203.72	2918.78	2919.47	2925.88	86.01	0.29	0.24				
115	8,979	91.60	90.40	6055.07	202.62	3044.73	3045.42	3051.46	86.19	0.18	0.08				
116	9,105	88.50	90.80	6054.96	201.30	3170.71	3171.39	3177.09	86.37	2.48	-2.46				
117	9,231	90.70	90.40	6055.84	199.98	3296.69	3297.37	3302.75	86.53	1.77	1.75				
118	9,357	90.80	89.90	6054.19	199.65	3422.68	3423.35	3428.50	86.66	0.40	0.08				
119	9,483	91.70	89.60	6051.44	200.20	3548.65	3549.32	3554.29	86.77	0.75	0.71				
120	9,609	91.10	89.70	6048.36	200.97	3674.61	3675.28	3680.10	86.87	0.48	-0.48				
121	9,735	89.30	90.60	6047.92	200.64	3800.60	3801.27	3805.89	86.98	1.60	-1.43				
122	9,861	88.80	90.40	6050.01	199.54	3926.57	3927.25	3931.64	87.09	0.43	-0.40				
123	9,987	88.90	91.10	6052.54	197.89	4052.54	4053.20	4057.37	87.20	0.56	0.08				
124	10,113	89.20	91.10	6054.63	195.47	4178.50	4179.15	4183.07	87.32	0.24	0.24				
125	10,239	89.50	90.40	6056.06	193.82	4304.48	4305.13	4308.84	87.42	0.60	0.24				
126	10,366	88.70	89.70	6058.06	193.71	4431.46	4432.11	4435.69	87.50	0.84	-0.63				
127	10,492	90.70	89.30	6058.71	194.81	4557.45	4558.10	4561.61	87.55	1.62	1.59				
128	10,618	89.50	87.60	6058.50	198.22	4683.39	4684.06	4687.59	87.58	1.65	-0.95				
129	10,743	89.00	87.10	6060.13	204.00	4808.25	4808.93	4812.57	87.57	0.57	-0.40				
130	10,870	88.00	89.00	6063.46	208.32	4935.12	4935.82	4939.52	87.58	1.69	-0.79				
131	10,995	90.40	88.90	6065.20	210.61	5060.08	5060.79	5064.46	87.62	1.92	1.92				
132	11,122	91.20	88.50	6063.43	213.49	5187.04	5187.75	5191.43	87.64	0.70	0.63				
133	11,248	93.50	88.00	6058.26	217.33	5312.86	5313.59	5317.30	87.66	1.87	1.83				
134	11,322	95.10	87.50	6052.71	220.23	5386.59	5387.33	5391.09	87.66	2.26	2.16				
PTB:	11,400	95.10	87.50	6045.78	223.62	5464.21	5464.96	5468.78	87.66	0.00	0.00				