

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

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.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.** **HOBBS OCE**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: DEYSI FAVELA E-Mail: dfavela@cimarex.com	3a. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1964	5. Lease Serial No. NMNM0559539	6. If Indian, Allottee or Tribe Name	7. If Unit or CA/Agreement, Name and/or No.	8. Well Name and No. JAMES FEDERAL 20H	9. API Well No. 30-025-41251-00-X1	10. Field and Pool, or Exploratory SAND DUNES	11. County or Parish, and State LEA COUNTY, NM
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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 recompletion 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.)

Drill pilot hole to 12150' and evaluate open hole logs. Cimarex respectfully requests approval to drill the well as an Avalon horizontal target instead of a Second Bone Spring Sand target.

Proposed changes to the pilot hole cement procedure.

9/28/13 verbal approval from Mr. Chris Walls at the BLM:

TD of pilot hole: 12,150'

Top of Wolfcamp: 11,955'

Tripped in hole to 12,125' to set cement plug. Pumped BBLS H₂O Spacer, 300 sks (63 bbls) 15.6 ppg, 1.18 yield, Class "H" Cement, Additives: 0.1% Dispersant, 0.3% Retarder, Displaced with 193 bbls of 9.2 PPG Cut Brine. POOH to 11,182' and circulated for 11.5 hours. TIH and tagged cement at 11,263'.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #221687 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by CHRISTOPHER WALLS on 09/30/2013 (13CRW0069SE)	
Name (Printed/Typed) DEYSI FAVELA	Title DRILLING TECHNICIAN
Signature (Electronic Submission)	Date 09/30/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Petroleum Engineer Title _____ Office _____	APPROVED SEP 30 2013 s/ Chris Walls BUREAU OF LAND MANAGEMENT
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.		
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 Agent or Officer of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

OCT 23 2013

Additional data for EC transaction #221687 that would not fit on the form

32. Additional remarks, continued

Proposed Plan:

Utilize an OH, cemented whipstock to kick-off. KOP/bottom of whipstock to be set at 8964. With a 500' 16 ppg + 0.1% Dispersant + 0.4% Retarder whipstock cement plug from 8760' to 9260'. Kick off and drill curve/lateral per ST01 Rev2 directional plan. TD well @ 14084'.

Proposed production casing change:

5-1/2" 17#, P110 LTC/BTC csg set @ 13964'. (0-8964' LTC & 8964-13964' BTC) Cmt w/lead: 530 sx 35:65 POZ H, 11.9 ppg, 2.4 yld; tail w/ 1420 sx 35:65 POZ H, 14.5 ppg, 1.24 yld. TOC @ 4285'.

Pilot hole cement details and the revised directional plan attached.

HOBBS OCD

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax: (505) 393-6720

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 884-6176 Fax: (505) 884-6170

DISTRICT IV

1820 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised August 1, 2011Submit one copy to appropriate
District Office

RECEIVED

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41251	Pool Code	Pool Name
Property Code	Property Name Wildcat Bone Spring JAMES FEDERAL	Well Number 20H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3685

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	23 S	32 E		185	NORTH	1880	WEST	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
N	29	23 S	32 E		330	SOUTH	2200	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	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

1880' N 467179.75 E 735457.36 3677' 3684' 3686.9' 3690.1' S.L. N 467201.92 E 738092.06 N 467228.29 E 740727.62 SURFACE LOCATION Lat - N 32°16'56.25" Long - W 103°41'56.77" NMSPCE- N 467010.5 E 737338.0 (NAD-83)	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 unleased 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>Deysi Favela</i> 4/2/13 Signature Date Deysi Favela Printed Name dfavela@cimarex.com Email Address
N 464538.72 E 735473.58 2200' N 461896.56 E 735489.81 B.H. N 461920.30 E 738125.33 N 461943.00 E 740762.26 N 464583.86 E 740745.77 PROPOSED BOTTOM HOLE LOCATION Lat - N 32°16'09.09" Long - W 103°41'53.03" NMSPCE- N 462246.4 E 737687.7 (NAD-83)	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. MARCH 07 2013 Date Surveyed Signature Seal of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28245



NorAm 23

Cimarex

Rev3



WELL	James Federal #20H		FIELD	NM Lea County		STRUCTURE	Cimarex James Federal #20H	
Mapsheet Parameters:	Map: 8501M 2013	Map Dec: 7.476°	Date: September 24, 2013	Surface Location:	NAD83 New Mexico State Plane, Eastern Zone, 1'S Feet	Mapsheet:	Map: Cimarex James Federal #20H TVD Ref: KIM3121 above MSL	Plan: Res 3 WGR 30-Sep-13
Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°	Map Dec: 7.476°

Legend

Cimarex James Federal #20 - 330' HL

Cimarex James Federal #20 - 330' HL

Cimarex James Federal #20 - 330' HL

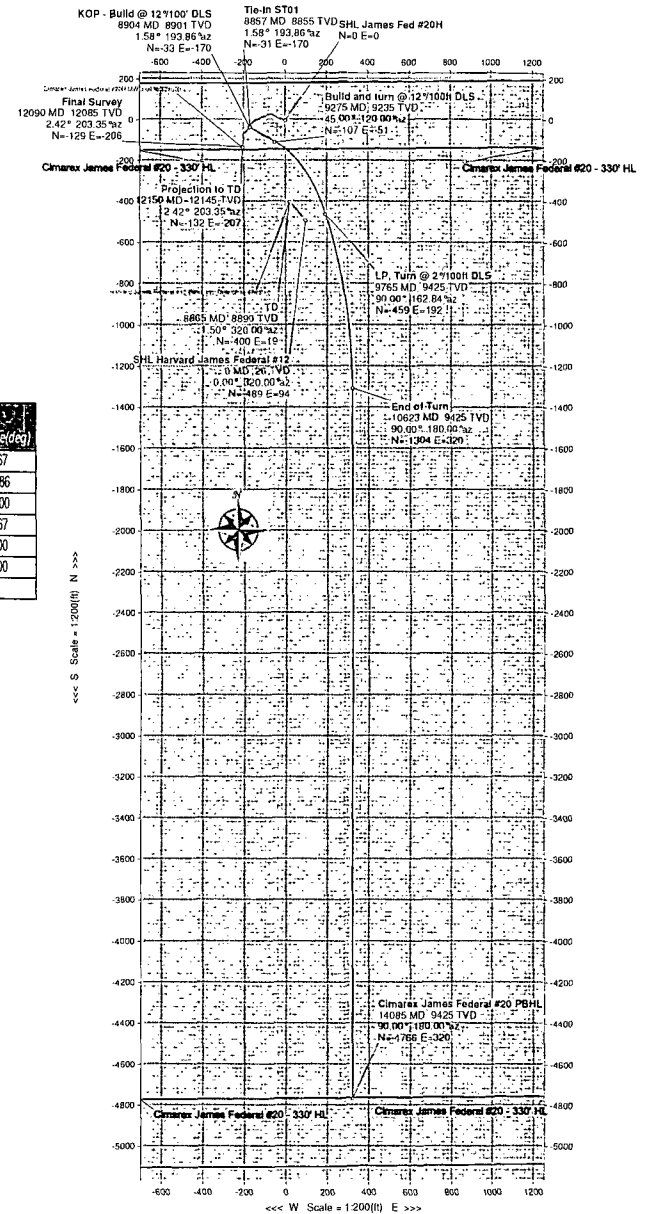
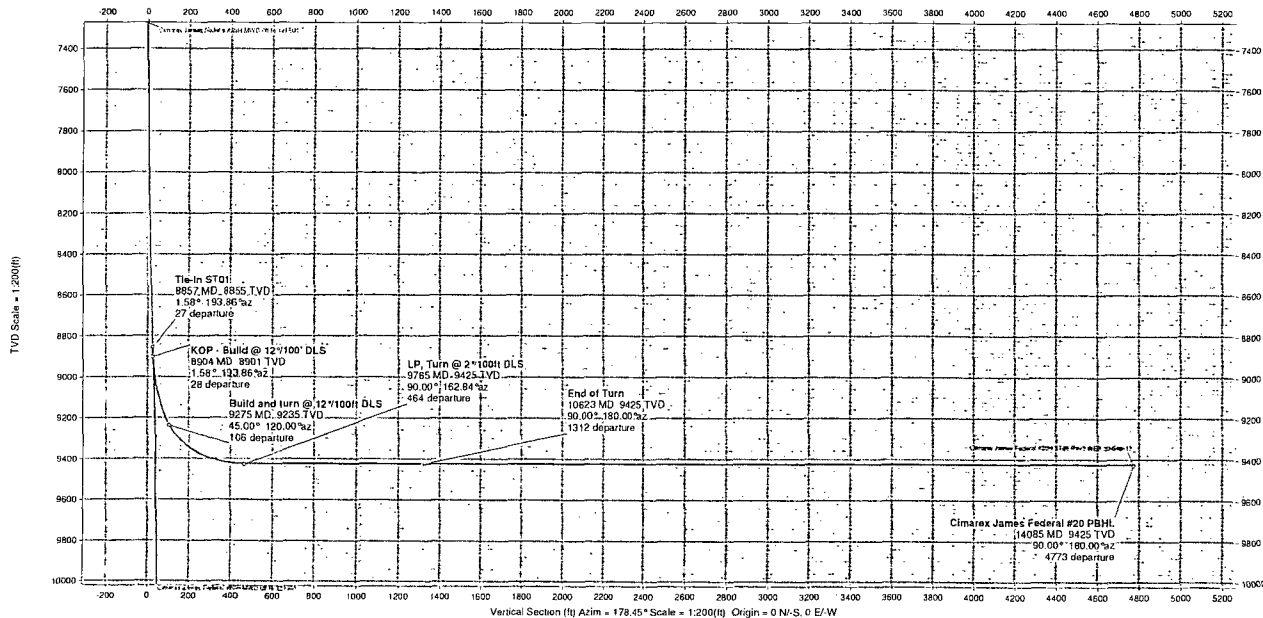
Cimarex James Federal #20 - 330' HL

Cimarex James Federal #20 - 330' HL

Cimarex James Federal #20 - 330' HL

Grid North
Tot Corr (M-S-G 7.1372")
Mag Dec (7.476")
Grid Conv (0.339")

Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	Sub-Sea TVD (VS(ft))	NS(ft)	E/V(ft)	Latitude(deg)	Longitude(deg)	Easting(ftUS)	Northing(ftUS)	Closure(ft)	Closure Azimuth(deg)	DLS(1100ft)	Tool Face(deg)
SHL James Fed #20H	0.00	0.00	0.00	0.00	-3713.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.67
Tie-In ST01	8857.48	1.58	193.86	8854.87	5141.87	26.71	-31.33	-169.70	N 32 16 56.256 W 103 41 56.774	737338.00	467010.50	0.00	0.00	0.83	193.86
KOP - Build @ 12°1100' DLS	8904.33	1.58	193.86	8900.90	5187.90	27.94	-32.56	-170.00	N 32 16 55.944 W 103 41 58.757	737168.01	466979.17	172.56	259.54	0.00	120.00
Build and turn @ 12°1100' DLS	9275.04	45.00	120.00	9234.96	5521.96	105.57	-107.00	-51.43	N 32 16 55.200 W 103 41 57.381	737286.57	466903.50	118.72	205.67	12.00	52.67
LP Turn @ 2°1100' DLS	9764.59	90.00	162.84	9425.00	5712.00	463.86	-458.81	182.47	N 32 16 51.705 W 103 41 54.564	737530.46	466551.71	497.54	157.24	12.00	90.00
End of Turn	10622.84	90.00	180.00	9425.00	5712.00	1312.48	-1304.28	320.07	N 32 16 43.331 W 103 41 53.136	737638.05	465706.28	1342.98	166.21	2.00	90.00
Cimarex James Federal #20 PBHL	14084.99	90.00	180.00	9425.00	5712.00	4773.36	-4766.43	320.00	N 32 16 9.074 W 103 41 53.376	737657.98	462244.30	4777.16	176.16	0.00	



Drawn By: W. Blakman
Date Created: September 26, 2013 02:14:38 PM
Checked By:
Checked Date:
Approved By:
Approved Date:



Cimarex James Federal #20H ST01 Rev3 WEB 30-Sep-13 Proposal Report

(Non-Def Plan)

Report Date: September 30, 2013 - 02:05 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: NorAm 23 / Cimarex James Federal #20H
Well: Cimarex James Federal #20H
Borehole: ST01 Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex James Federal #20H ST01 Rev3 WEB 30-Sep-13
Survey Date: September 28, 2013
Tort / AHD / DDI / ERD Ratio: 161.789 ° / 5102.134 ft / 6.091 / 0.541
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 56.25579", W 103° 41' 56.77450"
Location Grid N/E Y/X: N 467010.500 ftUS, E 737338.000 ftUS
CRS Grid Convergence Angle: 0.3387 °
Grid Scale Factor: 0.99995309

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 178.446 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB
TVD Reference Elevation: 3713.000 ft above MSL
Seabed / Ground Elevation: 3685.000 ft above MSL
Magnetic Declination: 7.476 °
Total Gravity Field Strength: 999.1418 mgn (9.8 based)
Total Magnetic Field Strength: 48393.099 nT
Magnetic Dip Angle: 60.150 °
Declination Date: September 28, 2013
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.3387 °
Total Corr Mag North->Grid North: 7.1372 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (%/100ft)	TF (°)
Tie-In ST01	8857.48	1.58	193.86	8854.87	26.71	-31.33	-169.70	172.56	259.54	N/A	193.86M
KOP - Build @ 12°/100' DLS	8903.53	1.58	193.86	8900.90	27.94	-32.56	-170.00	173.09	259.16	0.00	120M
Build and turn @ 12°/100ft DLS	9275.04	45.00	120.00	9234.96	105.57	-107.00	-51.43	118.72	205.67	12.00	52.67R
LP, Turn @ 2°/100ft DLS	9764.59	90.00	162.84	9425.00	463.86	-458.81	192.47	497.54	157.24	12.00	90R
End of Turn	10622.84	90.00	180.00	9425.00	1312.48	-1304.28	320.07	1342.98	166.21	2.00	90R
Cimarex James Federal #20 PBHL	14084.99	90.00	180.00	9425.00	4773.36	-4766.43	320.00	4777.16	176.16	0.00	

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (%100ft)	TF (°)
		0.000	28.000		Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only		Pilot Borehole / Cimarex James Federal #20H MWD 0ft to	
		28.000	8857.480		Act Stns	30.000	30.000	SLB_MWD-POOR		Pilot Borehole / Cimarex James Federal #20H MWD 0ft to	
		8857.480	8902.000		1/100.000	30.000	30.000	SLB_MWD-POOR		ST01 Borehole / Cimarex James Federal #20H ST01 Rev3 WEB	
		8902.000	14084.994		1/100.000	30.000	30.000	SLB_MWD-STD		ST01 Borehole / Cimarex James Federal #20H ST01 Rev3 WEB	