

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OGD
AUG 15 2012
RECEIVED

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

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. NM-108976

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

ROCA PRODUCTION, INC.

3a. Address P. O. Box 10139

MIDLAND, TEXAS 79702

3b. Phone No. (include area code)

432-683-6812

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

660' FNL & 1980' FEL SECTION 22 T20S-R33E

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

8. Well Name and No.

OUTLAW "22" FEDERAL COM. # 1H

9. API Well No.

30-025 40725

10. Field and Pool or Exploratory Area

TEAS-BONE SPRING

11. County or Parish, State

LEA CO. NEW MEXICO

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	☐ Fracture Treat	☐ 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.)

SEE ATTACHED SHEET FOR DETAILS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Joe T. Janica

Title Permit Eng.

Signature

Joe T. Janica

Date 08/14/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Petroleum Engineer

Title

Office

APPROVED

AUG 14 2012

/s/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 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)

AUG 16 2012

Outlaw 22 Federal Com #1H Sundry

ROCA Production, Inc respectfully requests the following changes:

Surface casing section:

Drill 17-1/2" hole to 1400' (approved COA depth)

Run 13-3/8" 54.5# J-55 STC csg to TD

Cmt to surface in 1 stg with:

Lead: 800 sx Class C + 4% Gel + 2% CaCl₂ @ 13.5 ppg/1.75 yield

Tail: 250 sx Class C + 2% CaCl₂ @ 14.8/1.35 yield

75% excess on OH

Intermediate casing section:

Drill 12-1/4" hole to 3500' (approved COA depth)

Run 9-5/8" 36# J-55 BTC csg to TD

Cmt to surface in 1 stg with:

Lead: 850 sx Class C + 4% Gel @ 13.5 ppg/1.75 yield

Tail: 250 sx Class C + 2% CaCl₂ @ 14.8/1.35 yield

100% excess on OH

2nd Intermediate casing section:

Cmt to surface in 2 stgs with:

1st Stg:

Lead: 200 sx 35:65:6 H + Salt + Gilsonite + CF + CFR-3 @ 12.7 ppg/1.89 yield

Tail: 100 sx Class C @ 14.8/1.35 yield

100% excess on OH

DVT/ECP set @ 3400'

2nd Stg:

Lead: 325 sx Class C + 4% Gel @ 13.5 ppg/1.75 yield

Tail: 100 sx Class C + 2% CaCl₂ @ 14.8/1.35 yield

15% excess on CH

Pilot Hole & Production casing section:

Drill 6-1/8" pilot hole to 11,350' to run OH logs

Plug back OH from 11,350' to 10,400' w/225 sx Class H @ 17.2 ppg/0.98 yield

Kick off and drill 6-1/8" curve & lateral to 14,877' MD/11,220' TVD (see attached directional plan)

Run 4-1/2" 11.60# P-110 LTC csg to TD

Cmt in 1 stage with:

Lead: 550 sx 50:50:10 H + Salt + Gilsonite + CF + CFR-3 @ 11.8 ppg/2.5 yield

Tail: 450 sx 50:50:2 H + Salt + GasStop + CFR-3 @ 14.4 ppg/1.25 yield

Minimum tie back to 3500'

35% excess on OH

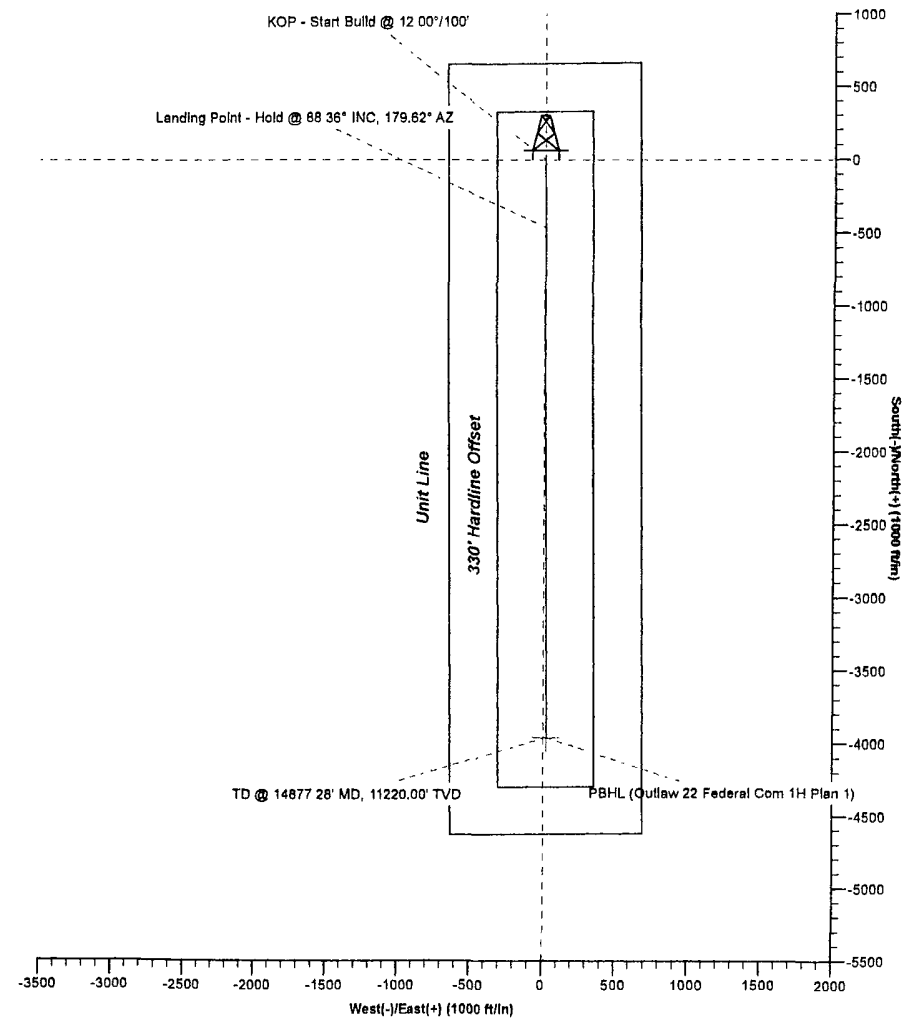
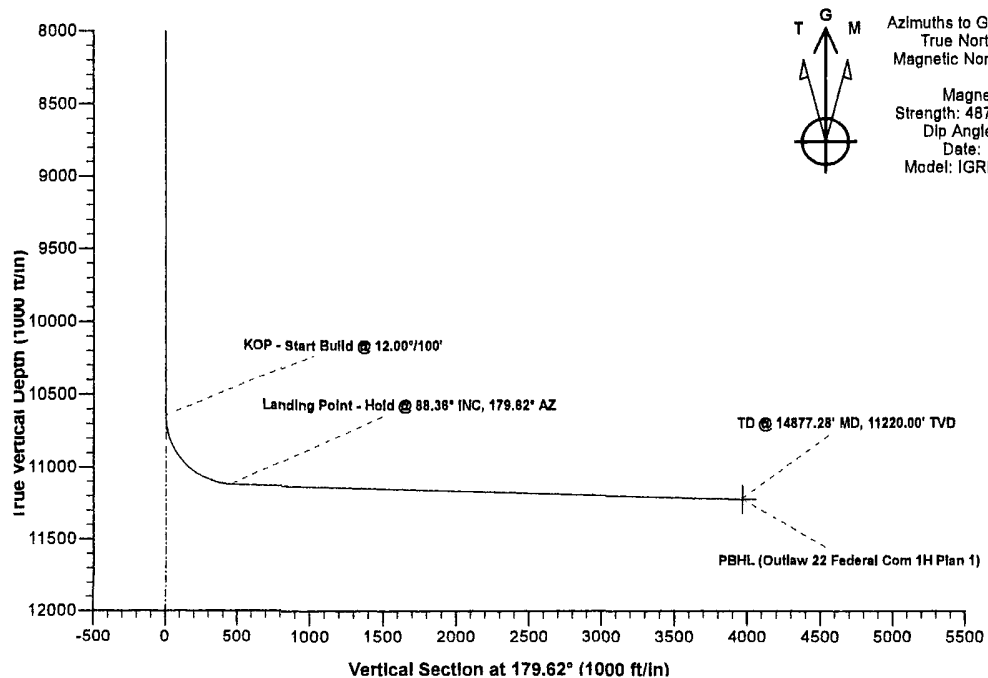


ROCA Production, INC
Outlaw 22 Federal Com 1H
Lea County, NM
Plan #1

Surface Location		Ground Elev: 3588.00 WELL @ 3605.00ft (Original Well Elev)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	569557.50	711003.10	32.563952	-103.648453

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL (Outlaw 22 Federal Com 1H Plan 1)	11220.00	-3960.50	26.10	565597.00	711029.20	32.553065	-103.648451

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	10642.73	0.00	0.00	10642.73	0.00	0.00	0.00	0.00	0.00	KOP - Start Build @ 12.00°/100'
3	11379.08	86.36	179.62	11120.00	-463.81	3.09	12.00	179.62	463.82	Landing Point - Hold @ 88.36° INC, 179.62° AZ
4	14877.28	86.36	179.62	11220.00	-3960.50	26.10	0.00	0.00	3960.59	TD @ 14877.28' MD, 11220.00' TVD



ROCA Production, INC

Lea County, NM

Outlaw 22 Federal Com 1H

Outlaw 22 Federal Com 1H

Wellbore #1

Plan: Plan #1

Standard Planning Report

03 August, 2012

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Outlaw 22 Federal Com 1H
Company:	ROCA Production, INC	TVD Reference:	WELL @ 3605.00ft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3605.00ft (Original Well Elev)
Site:	Outlaw 22 Federal Com 1H	North Reference:	Grid
Well:	Outlaw 22 Federal Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project:	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		

Site:	Outlaw 22 Federal Com 1H			
Site Position:		Northing:	569,557.50 ft	Latitude: 32.563952
From:	Map	Easting:	711,003.10 ft	Longitude: -103.648453
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.37 °

Well:	Outlaw 22 Federal Com 1H			
Well Position	+N-S	0.00 ft	Northing:	569,557.50 ft
	+E-W	0.00 ft	Easting:	711,003.10 ft
Position Uncertainty	0.00 ft		Wellhead Elevation:	
			Ground Level:	3,588.00 ft

Wellbore:	Wellbore #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
			(°)	(°)
	IGRF200510	8/3/2012	7.50	60.49
				Field Strength
				(nT)
				48,738

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	179.62

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,642.73	0.00	0.00	10,642.73	0.00	0.00	0.00	0.00	0.00	0.00	
11,379.08	88.36	179.62	11,120.00	-463.81	3.06	12.00	12.00	0.00	179.62	
14,877.28	88.36	179.62	11,220.00	-3,960.50	26.10	0.00	0.00	0.00	0.00	PBHL (Outlaw 22 Fed

Planning Report

Database: Houston R5000 Database
 Company: ROCA Production, INC
 Project: Lea County, NM
 Site: Outlaw 22 Federal Com 1H
 Well: Outlaw 22 Federal Com 1H
 Wellbore: Wellbore #1
 Design: Plan #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Site Outlaw 22 Federal Com 1H
 WELL @ 3605.00ft (Original Well Elev)
 WELL @ 3605.00ft (Original Well Elev)
 Grid
 Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,642.73	0.00	0.00	10,642.73	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build @ 12.00°/100'									
10,700.00	6.87	179.62	10,699.86	-3.43	0.02	3.43	12.00	12.00	0.00
10,800.00	18.87	179.62	10,797.17	-25.67	0.17	25.67	12.00	12.00	0.00
10,900.00	30.87	179.62	10,887.73	-67.65	0.45	67.65	12.00	12.00	0.00
11,000.00	42.87	179.62	10,967.58	-127.54	0.84	127.55	12.00	12.00	0.00
11,100.00	54.87	179.62	11,033.24	-202.73	1.34	202.73	12.00	12.00	0.00
11,200.00	66.87	179.62	11,081.82	-289.92	1.91	289.93	12.00	12.00	0.00
11,300.00	78.87	179.62	11,111.22	-385.31	2.54	385.32	12.00	12.00	0.00
11,379.08	88.36	179.62	11,120.00	-463.81	3.06	463.82	12.00	12.00	0.00
Landing Point - Hold @ 88.36° INC, 179.62° AZ									
11,400.00	88.36	179.62	11,120.60	-484.72	3.19	484.73	0.00	0.00	0.00
11,500.00	88.36	179.62	11,123.46	-584.68	3.85	584.69	0.00	0.00	0.00
11,600.00	88.36	179.62	11,126.31	-684.63	4.51	684.65	0.00	0.00	0.00
11,700.00	88.36	179.62	11,129.17	-784.59	5.17	784.61	0.00	0.00	0.00
11,800.00	88.36	179.62	11,132.03	-884.55	5.83	884.57	0.00	0.00	0.00
11,900.00	88.36	179.62	11,134.89	-984.50	6.49	984.52	0.00	0.00	0.00
12,000.00	88.36	179.62	11,137.75	-1,084.46	7.15	1,084.48	0.00	0.00	0.00
12,100.00	88.36	179.62	11,140.61	-1,184.42	7.81	1,184.44	0.00	0.00	0.00
12,200.00	88.36	179.62	11,143.47	-1,284.37	8.46	1,284.40	0.00	0.00	0.00
12,300.00	88.36	179.62	11,146.33	-1,384.33	9.12	1,384.36	0.00	0.00	0.00
12,400.00	88.36	179.62	11,149.18	-1,484.29	9.78	1,484.32	0.00	0.00	0.00
12,500.00	88.36	179.62	11,152.04	-1,584.24	10.44	1,584.28	0.00	0.00	0.00
12,600.00	88.36	179.62	11,154.90	-1,684.20	11.10	1,684.24	0.00	0.00	0.00
12,700.00	88.36	179.62	11,157.76	-1,784.16	11.76	1,784.20	0.00	0.00	0.00
12,800.00	88.36	179.62	11,160.62	-1,884.12	12.42	1,884.16	0.00	0.00	0.00
12,900.00	88.36	179.62	11,163.48	-1,984.07	13.08	1,984.12	0.00	0.00	0.00
13,000.00	88.36	179.62	11,166.34	-2,084.03	13.73	2,084.07	0.00	0.00	0.00
13,100.00	88.36	179.62	11,169.19	-2,183.99	14.39	2,184.03	0.00	0.00	0.00
13,200.00	88.36	179.62	11,172.05	-2,283.94	15.05	2,283.99	0.00	0.00	0.00
13,300.00	88.36	179.62	11,174.91	-2,383.90	15.71	2,383.95	0.00	0.00	0.00
13,400.00	88.36	179.62	11,177.77	-2,483.86	16.37	2,483.91	0.00	0.00	0.00
13,500.00	88.36	179.62	11,180.63	-2,583.81	17.03	2,583.87	0.00	0.00	0.00
13,600.00	88.36	179.62	11,183.49	-2,683.77	17.69	2,683.83	0.00	0.00	0.00
13,700.00	88.36	179.62	11,186.35	-2,783.73	18.34	2,783.79	0.00	0.00	0.00
13,800.00	88.36	179.62	11,189.20	-2,883.69	19.00	2,883.75	0.00	0.00	0.00
13,900.00	88.36	179.62	11,192.06	-2,983.64	19.66	2,983.71	0.00	0.00	0.00
14,000.00	88.36	179.62	11,194.92	-3,083.60	20.32	3,083.67	0.00	0.00	0.00
14,100.00	88.36	179.62	11,197.78	-3,183.56	20.98	3,183.63	0.00	0.00	0.00
14,200.00	88.36	179.62	11,200.64	-3,283.51	21.64	3,283.58	0.00	0.00	0.00
14,300.00	88.36	179.62	11,203.50	-3,383.47	22.30	3,383.54	0.00	0.00	0.00
14,400.00	88.36	179.62	11,206.36	-3,483.43	22.96	3,483.50	0.00	0.00	0.00
14,500.00	88.36	179.62	11,209.22	-3,583.38	23.61	3,583.46	0.00	0.00	0.00
14,600.00	88.36	179.62	11,212.07	-3,683.34	24.27	3,683.42	0.00	0.00	0.00
14,700.00	88.36	179.62	11,214.93	-3,783.30	24.93	3,783.38	0.00	0.00	0.00
14,800.00	88.36	179.62	11,217.79	-3,883.25	25.59	3,883.34	0.00	0.00	0.00
14,877.28	88.36	179.62	11,220.00	-3,960.50	26.10	3,960.59	0.00	0.00	0.00

TD @ 14877.28' MD, 11220.00' TVD - PBHL (Outlaw 22 Federal Com 1H Plan 1)

Planning Report

Database:	Houston R5000 Database	Local Co-ordinate Reference:	Site Outlaw 22 Federal Com 1H
Company:	ROCA Production, INC	TVD Reference:	WELL @ 3605.00ft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3605.00ft (Original Well Elev)
Site:	Outlaw 22 Federal Com 1H	North Reference:	Grid
Well:	Outlaw 22 Federal Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL (Outlaw 22 Feder	0.00	0.00	11,220.00	-3,960.50	26.10	565,597.00	711,029.20	32.553065	-103.648451
- plan hits target center									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
		+N-S	+E-W	
(ft)	(ft)	(ft)	(ft)	
10,642.73	10,642.73	0.00	0.00	KOP - Start Build @ 12.00°/100'
11,379.08	11,120.00	-463.81	3.06	Landing Point - Hold @ 88.36° INC, 179.62° AZ
14,877.28	11,220.00	-3,960.50	26.10	TD @ 14877.28' MD, 11220.00' TVD