

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBS OCD

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. ☐ Other

2. Name of Operator
EOG Resources Inc.

3. Address
P.O. Box 2267 Midland, Texas 79702

3a. Phone No. (include area code)
432-686-3689

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 50' FNL & 2130' FWL, NENW
At top prod. interval reported below 349' FSL & 1997' FWL, SESW
At total depth ~~5028' FSL & 2028' FWL, SESW~~
303' FSL & 1994' FWL, SESW

5. Lease Serial No.
NMNM108503

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
Vaca 14 Fed 6H

9. API Well No.
30-025-39943

10. Field and Pool, or Exploratory
Red Hills; BS Upper Shale

11. Sec., T., R., M., or Block and Survey or Area
Sec 14, T25S, R33E

12. County or Parish
Lea

13. State
NM

14. Date Spudded
9/7/2012

15. Date T.D. Reached
9/21/12

16. Date Completed
☐ D & A ☒ Ready to Prod.
10/26/12

17. Elevations (DF, RKB, RT, GL)*
3369' GL

18. Total Depth: MD
TVD
14150
9444

19. Plug Back T.D.: MD
TVD
14083

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	54.5		1249		900 C		surface	
12-1/4	9-5/8	40		4995		1325 C		surface	
8-3/4	5-1/2	17		14083		375 C 1700 H		est 4600'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8	8783							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Bone Spring	9258		9517 - 14050	0.39	672	producing
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9517 - 14050	Frac w/ 7152 bbls 7.5% HCl acid, 2406956 lbs 100 mesh sand, 4033320 lbs 40/70 sand, 123175 bbls load.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/26/12	11/4/2012	24	→	1244	2355	1758	42.0		Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 0	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
31/64		790					1893	POW	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

(See instructions and spaces for additional data on page 2)

RECLAMATION
DUE 4-26-13ACCEPTED FOR RECORD
Flowing
NOV 25 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

DEC 11 2013

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Rustler	1130	4810		Rustler	1130
Top of Salt	1460			Salt	1460
Base of Salt				Lamar	5055
Lamar	5055			Bell Canyon	5080
Bell Canyon	5080			Cherry Canyon	6145
Cherry Cyn	6145			Bone Spring	9228
Bone Spring	9228				

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

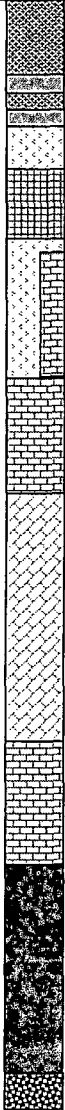
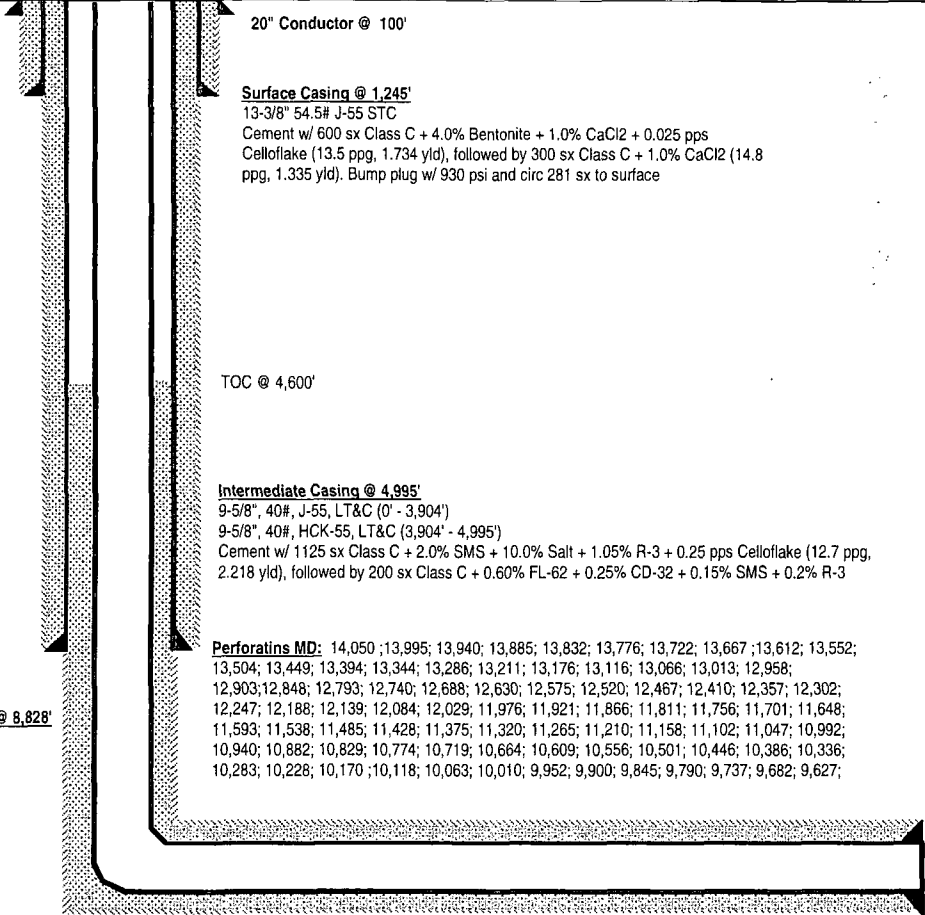
- ☒ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Stan WagnerTitle Regulatory AnalystSignature Date 11/6/12

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.

COMPLETED WELL SKETCH

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	OGRID: API: 30-025-39943 AFE: 104531 SPUD: 9/7/12 @ 06:45 hrs FRR: 9/23/12 @ 23:30 hrs RIG: Cactus #123	Vaca 14 Fed #6H Red Hills(Bone Spring) Field Lea County, New Mexico	SURF: 50' FNL & 2130' FWL LOC: Sec. 14 SURVEY: T-25-S, R-33-E GL: 3366.0' KB: 3396.0' ZERO: 30.0' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
2,000'	Rustler - 1200'			20" Conductor @ 100'		17-1/2"	8.6	FW	86	N/A	
3,000'				Surface Casing @ 1,245' 13-3/8" 54.5# J-55 STC Cement w/ 600 sx Class C + 4.0% Bentonite + 1.0% CaCl2 + 0.025 pps Celloflake (13.5 ppg, 1.734 yld), followed by 300 sx Class C + 1.0% CaCl2 (14.8 ppg, 1.335 yld). Bump plug w/ 930 psi and circ 281 sx to surface		12-1/4"	10.0	Brine			
5,000'	B / Salado - 4800' Lamar - 5040' Bell Canyon - 5070'			TOC @ 4,600'		10.2		NA			
6,000'	Cherry Canyon - 6155'			Intermediate Casing @ 4,995' 9-5/8", 40#, J-55, LT&C (0' - 3,904') 9-5/8", 40#, HCK-55, LT&C (3,904' - 4,995') Cement w/ 1125 sx Class C + 2.0% SMS + 10.0% Salt + 1.05% R-3 + 0.25 pps Celloflake (12.7 ppg, 2.218 yld), followed by 200 sx Class C + 0.60% FL-62 + 0.25% CD-32 + 0.15% SMS + 0.2% R-3		117					
7,000'				Perforations MD: 14,050 ;13,995; 13,940; 13,885; 13,832; 13,776; 13,722; 13,667 ;13,612; 13,552; 13,504; 13,449; 13,394; 13,344; 13,286; 13,211; 13,176; 13,116; 13,066; 13,013; 12,958; 12,903;12,848; 12,793; 12,740; 12,688; 12,630; 12,575; 12,520; 12,467; 12,410; 12,357; 12,302; 12,247; 12,188; 12,139; 12,084; 12,029; 11,976; 11,921; 11,866; 11,811; 11,756; 11,701; 11,648; 11,593; 11,538; 11,485; 11,428; 11,375; 11,320; 11,265; 11,210; 11,158; 11,102; 11,047; 10,992; 10,940; 10,882; 10,829; 10,774; 10,719; 10,664; 10,609; 10,556; 10,501; 10,446; 10,386; 10,336; 10,283; 10,228; 10,170 ;10,118; 10,063; 10,010; 9,952; 9,900; 9,845; 9,790; 9,737; 9,682; 9,627;		8.4		N/A			
8,000'			KOP @ 8,828'			8-3/4"		WBM			
9,000'	Bone Spring Lime - 9220'			Production Casing @ 14,080' MD, 9,445' TVD 5-1/2" 17# HCP-110 LTC Cement w/ 375 sx 60:40:0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 3.10% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3.681 yld), followed by 400 sx 50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.5% SMS + 2.0% Salt + 0.05% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.38 yld), followed by 1300 sx 50:50:2 Class H + 0.65% FL-52 + 0.50% CD-32 + 0.40% SMS + 2.0% Salt + 0.15% R-3 (14.2 ppg, 1.281 yld). Bump plug w/ 2180 psi. Did not circ cement to surface		9.3			140		
10,000'	1st Bone Spring Sand - 10170' 2nd Bone Spring - 10430' 2nd Bone Spring Sand- 10820'										
11,000'	PTD - ~11,000'										

Drig Eng:

Date:

R. Willett

10/9/2012

Drig Eng: R. Willett
Date: 10/9/2012

Vaca 14 #6H

Stage Number	Top	Bottom	Total Shots	Acid type descr	Acid Volume	Acid Flush Volume	BBL Load	Fracture Volume	Fracture Flush Volume	Total BBLs	Total Load	100 Mesh	40/70	Total Numbers - All Prop
1	13885	14051	32	7 1/2 % HCL	108	672	744	6,795	422	7,217	7,961	143,420	144,480	287,900
2	13612	13833	40	7 1/2 % HCL	72	321	393	6,575	416	6,991	7,384	143,860	241,920	385,780
3	13344	13553	40	7 1/2 % HCL	72	332	404	6,334	410	6,744	7,148	143,900	238,020	381,920
4	13066	13287	40	7 1/2 % HCL	72	339	411	6,654	403	7,057	7,468	143,390	238,190	381,580
5	12793	13014	40	7 1/2 % HCL	72	306	378	6,474	397	6,871	7,249	144,282	240,780	385,062
6	12520	12741	40	7 1/2 % HCL	108	642	750	6,223	391	6,614	7,364	143,360	243,360	386,720
7	12247	12468	40	7 1/2 % HCL	72	302	374	6,354	384	6,738	7,112	146,100	239,820	385,920
8	11976	12189	40	7 1/2 % HCL	72	288	360	6,543	378	6,921	7,281	145,720	238,230	383,950
9	11701	11922	40	7 1/2 % HCL	72	359	431	6,597	372	6,969	7,400	144,424	238,500	382,924
10	11428	11649	40	7 1/2 % HCL	72	280	352	6,366	365	6,731	7,083	97,180	284,900	382,080
11	11158	11376	40	7 1/2 % HCL	108	509	617	6,542	359	6,901	7,518	143,700	243,910	387,610
12	10882	11103	40	7 1/2 % HCL	72	254	326	6,241	352	6,593	6,919	144,880	240,160	385,040
13	10609	10830	40	7 1/2 % HCL	72	259	331	6,416	346	6,762	7,093	146,204	239,830	386,034
14	10336	10557	40	7 1/2 % HCL	72	249	321	6,412	340	6,752	7,073	143,600	239,410	383,010
15	10063	10284	40	7 1/2 % HCL	72	269	341	6,407	333	6,740	7,081	144,396	241,350	385,746
16	9790	10011	40	7 1/2 % HCL	72	238	310	6,552	327	6,879	7,189	144,940	240,390	385,330
17	9517	9738	40	7 1/2 % HCL	72	273	309	6,293	250	6,543	6,852	143,600	240,070	383,670
	Effective Treated Lateral		Total Shots		Total Acid	Total Flush	Total Acid BBLs	Total Frac Vol	Total Frac Flush	Total Frac BBLs	Total Load	Total 100 Mesh	Total 40/70	Total Prop
	4534		672	7 1/2 % HCL	1,332	5,892	7,152	109,778	6,245	116,023	123,175	2,406,956	4,033,320	6,440,276