MCD-HOBBS	
Form 3160-5 (August 2007) UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT AUG 1.7 2015 5. Lease Serial No.	
SUNDRY NOTICES AND REPORTS ON WELLS Fee NMNM 119277, St VB15060000 Do not use this form for proposals to drill or to re-enteRapEIVED 6. If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. Fee NMNM 119277, St VB15060000	
SUBMIT IN TRIPLICATE - Other instructions on page 2. 7. If Unit of CA/Agreement, Name and/or No. E E	-
I. Type of Well Image: Constraint of Well Image: Constraint of Well Image: Constraint of Well Name and No. Image: Constraint of Well Image: Constraint of Well Name and No. Image: Constraint of Well Image: Constraint of Well Name and No. Image: Constraint of Well Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and No. Image: Constraint of Well Name and Name and No. Image: Constraint of Well Name a	
2. Name of Operator Endeavor Energy Resources, LP 9. API Well No. 30-025-41370	
3a. Address 3b. Phone No. (include area code) 10. Field and Pool or Exploratory Area 110 N. Marienfeld Street, Suite 200 (432) 687-1575 RED HILLS, UPPER BONE SPRINGS SHALE	E (97900)
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 11. Country or Parish, State 2260' FNL, 380 FWL, UNIT "E", SEC. 2, T26S, R33E, Lea CO. NM. Lea, 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 Alter Casing Fracture Treat Reclamation Well Integrity	
Subsequent Report Casing Repair New Construction Recomplete Other Change Plans Plug and Abandon Temporarily Abandon	
Final Abandonment Notice Convert to Injection Plug Back Water Disposal	
testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator determined that the site is ready for final inspection.) After running open hole logs, Endeavor would like to change the lateral target to 9370' TVD in the Avalon Shale. Field and Pool: Red Hills (Upper Bon Shale), Pool ID 97900. *** See attached revised drilling plan*** Verbal approval granted 8/15/2014, Hard copies lost in mail room for some time & appeared Fecently. 8/13/2015 Mikroart	
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Jan South	
Signature Date 08/15/2014	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE APPROVED	
Approved by	
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.	<u>></u>
	tes any false,
fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	1

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ENDEAVOR ENERGY RESOURCES, LP

110 N. Marienfeld St., Suite 200 Midland, TX 79701 Rev. 4: Aug. 15, 2014

After running open hole logs, Endeavor would like to change the lateral target to 9370' TVD in the Avalon Shale. Field and Pool: Red Hills (Upper Bone Spring Shale), Pool ID 97900

Endeavor proposes the following changes to our drilling plan:

DRILLING PLAN Battle Axe Fed. Com. #2H

API# 30-025-41370	AFE # EER Prop Code:
Driving Directions:	From Jal, NM: Go W on hwy #128 for 15 mi, turn L on Battle
	Axe rd go 12 mi SW, turn R go 0.6 mi N, turn L go W into location.
Surface Location:	660 ft from N line & 660 ft from W line (UL "D") of Sec. 3, T- 26S, R-33E, Lea Co., NM

FORMATION TOPS:

Elevation: 3322 ft GL, 3348 ft KB elevation (26 ft RKB).

Formation	Тор	Base	Comments
Rustler anhydrite	920		
Surface casing point	±950		
Salt	~1120		
Lamar Lime	~4800		
9-5/8" casing point	±4900		-
Bell Canyon	5016		
Cherry Canyon	6300		Oil
Brushy Canyon	7580		Oil
Bone Spring lime	9100		
Avalon shale	9150		
Hz Target	9355	9385	Oil
1 st Bone Spring sand	10,100		Oil
2 nd Bone Spring sand	10,660		Oil
3 rd Bone Spring sand	11,745		Oil
Wolfcamp	12,200		Oil & gas
Permitted TD	12,250		

DIRECTIONAL PLAN:

Critical Point	<u>Hole</u> Size	MD	Incl.	<u>Az.</u>	TVD	<u>VS</u>	<u>Build</u> Rate	<u>Comments</u>
KOP	8-3/4"	8654	0		8654		Tidio	
End of Curve	8-3/4"	9779	90		9370	716	8	Build curve w/ motor.
PBHL	8-1/2"	16,259	90		9370	7196		100 ft from S line

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CASING PROGRAM: All casing will be NEW.

Hole	Depth	Casing	Wt	Grade	Conn.	Collapse	Collapse	Burst	Tension (SF)
						Force	Rating	(SF)	≥1.6 dry
							(SÉ)	≥1.0	≥1.8 buoy
							≥1.125		
8-3/4"	0 - 8655	5 1/2"	17	P110	UltraDQX			8500 psi	159.3k (3.43) dry
								(1.25)	137.3k (3.97) buoy
1	8655 -	5 1/2	17	P110	UltraFJ	4629 psi	7480 (1.62)		ч.
8-1/2"	16,259					(9.5 MW		(8500 psi	(9.0 MW)
						9370'		max on	(UltraDQX = 545.9k
	(9370'					TVD)		frac job)	yield)
	TVD)								
									*See spec sheet.

UltraDQX above KOP and UltraFJ below KOP to PBHL.

CEMENTING PROGRAM:

Pilot Hole Plugback: Hole volume: 8-3/4" = 0.4176 cu ft/ft

- Plug 1: 913 sx H + 0.02 gps D206 Antifoam + 0.06 gps D080 dispersant + 0.085 gps D197 Retarder (may adjust for TT). (15.6 ppg, 1.18 cu ft/sk)
 - Interval: 12,250' (Pilot Hole TD) 10,000' (975 cu ft log caliper + 10% excess).
 - Est BHST = 174° F BHST at 12,250' (from 167°F BHLT)
- Plug 2: 263 sx H + 0.02 gps D206 Antifoam + 0.06 gps D080 dispersant + 0.085 gps D197 Retarder (may adjust for TT). (17.5 ppg, 0.94 cu ft/sk)
 - o Interval: 9,000' 8500 (220 cu ft log caliper + 12% excess)
 - Est BHST = 148° F
 - Plug #2 will be tagged and dressed to 100' short of KOP, then sidetrack operations will begin.

5-1/2" Production Casing: annular volume: 8-1/2" = 0.2291 cu ft/ft

8-3/4" = 0.2526 cu ft/ft

- Lead cement: 695 sx 50/50/10 Poz/H/gel + 5% BWOW salt + 4 pps kolite/gilsonite/phenoseal (11.8 ppg, 2.54 cu ft/sk)
 - o Interval: 9779 ft MD (EOC) to 4400' (calc. with 30% excess) = 1766 cu ft
- Tail cement: 1451 sx 50/50/2 Poz/H/gel + 5% BWOW salt (14.4 ppg, 1.33 cu ft/sk)
 - Interval: 16,259 ft MD (shoe) to 9,779 ft MD (EOC), calc. with 30% excess) = 1930 cu ft
 - Est BHST = 151° F
 - o WOC time prior to drill-out: N/A

Kelvin Fisher Drilling Manager Endeavor Energy Resources, LP