orm 3160-5 August 2007)	DEPAR	UNITED STATE		NMO Hob		ÓN	DRM APPROVED MB No. 1004-0137 pires: July 31, 2010
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		ICES AND REPO			·	6. If Indian, Allottee or	
		n for proposals t Form 3160-3 (A					
	SUBMIT IN	TRIPLICATE – Other	instructions on	page 2.	· .	7. If Unit of CA/Agreer	ment, Name and/or No.
Type of Well ✓ ☑ Oil Well	🗌 Gas Well	Other				8. Well Name and No. Mustang 33 Federal	#2H 🖌
Name of Operator ndurance Resources LL	c /			HOBBS		9. API Well No. 30-025-42902	<u></u>
a. Address 03 W Wall St, Ste 1000, Midland,	TX 79701		3b. Phone No. (1 432-242-4680	nclude area code	2016	10. Field and Pool or E: JABALINA; DELAWA	
. Location of Well <i>(Footag</i> ec 33, T 25S, R 35E, 150 FSL, 19	ze, Sec., T.,R.,M. 980 FWL, Lea Co, I	, or Survey Description	)		2010	11. Country or Parish, S New Mexico	State
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Notice of Intent		Acidize	Deeper	ı e Treat	<u> </u>	uction (Start/Resume)	Water Shut-Off Well Integrity
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# HOBBS OCD APR 1 8 2016 RECEIVED

Endurance Resources LLC

# DRILLING & OPERATIONS PROGRAM Mustang 33 Fed 2H SHL: 150' FSL & 1980' FWL Sec 33-25S-35E BHL: 330' FNL & 1980' FWL Sec 28-25S-35E Lea Co, NM

- 1. <u>Geological Name of Surface Formation</u> Quaternary
- 2. Estimated Tops of Important Geological Markers Fresh Water 400' Rustler 987' Top of Salt 1,544' Lamar Limestone 5,260' Bell Canyon 5,272' - Oil Cherry Canyon 6,344' Brushy canyon 7,807' - Oil TVD: 9,047'; MD: 18,885'
- 3. <u>Estimated Depths of Anticipated Fresh Water, Oil or Gas</u> The estimated depths at which water, oil and gas will be encountered are as follows:

Water: Average depth to water: 400'. Minimum depth: 0'. Max: 400'. As reported from the New Mexico Office of the State Engineer website.

Oil & Gas: 5,272' – 9,047' (Bell Canyon through Brushy Canyon) No other formations are expected to give up oil, gas, or fresh water in measurable quantities.



## 4. <u>Proposed Casing Program:</u>

Size	Depth	#/ft	Grade	Connection	Collapse	Burst	Tension
9-5/8″	1,075'	40	J-55	LT&C	5.11	7.86	12.09
7″	9,375'	29	HCP-110	BTC/TTRS-1	2.62	2.65	3.42
4-1/2"	18,885'	13.5	HCP-110	BTC/TTRS-1	3.07	2.93	1.66

NOTE: ALL CASING IS NEW & API APPROVED. WHILE RUNNING CASING, PIPE WILL BE KEPT A MINIMUM OF 1/3 FULL AT ALL TIMES TO AVOID APPROACHING COLLAPSE PRESSURE OF THE CASING. SURFACE CASING WILL BE WATCHED & NECESSARY ADJUSTMENTS MADE TO ENSURE PIPE IF FULL DUE TO LOST CIRCULATION ZONES THAT MAY OCCUR. CENTRALIZERS WILL BE USED ON SURFACE, INTERMEDIATE, and PRODUCTION CASING.

- 5. Proposed Cement Program:
  - a. 9-5/8" Surface

Lead: 300 sks ExtendaCem Class C (13.7 ppg / 1.694 cuft/sk) Tail: 155 sks HalCem Class C (14.8 ppg / 1.326 cuft/sk)

\*\*Calculated w/ 100% excess on OH volume

# b. 7" Intermediate

Lead: 500 sks Tuned Light Class H (9.0 ppg / 3.556 cuft/sk)

- Tail: 250 sks VersaCem Class H + 0.3% Super CBL + 0.2% Halad-9 retarder
- + 0.2% HR-800 retarder (14.4 ppg / 1.247 cuft/sk)
- \*\*Calculated w/ 50% excess on OH volumes & 10% in CH
- c. 4 ½" Production

Tail: 965 sks VersaCem Class H + 0.5 % Halad-344 + 0.4% Halad-322 + 0.4% HR-800 retarder (14.5 ppg / 1.227 cuft/sk)

\*\*Calculated w/ 20% excess in OH

NOTE: THE ABOVE CEMENT VOLUMES COULD BE REVISED PENDING FLUID CALIPER & CALIPER LOG DATA. ALL VOLUMES ARE DESIGNED TO CIRCULATE TO SURFACE OR OFF THE TOP OF THE LINER HANGER.

6. Minimum Specifications for Pressure Control:

13-5/8 (10M) working pressure BOP system consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer (please see BOP schematic). A 5M choke manifold & 120 gallon accumulator with floor and remote operating stations & auxiliary power system. Rotating head as needed. A KC will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.



BOP unit will be hydraulically operated. BOP will be NU and operated at least once a day while drilling and the blind rams will be operated when out of the hole during trips. From the base of the 9-5/8" csg through running of production liner, the well will be equipped with a 10M BOP system. Below the 9-5/8 csg shoe, this 10M system will be equipped with a HCR valve, remote kill line, & annular to match. The remote kill line will be installed prior to testing the system & tested to stack pressure.

Before drilling out of the 9-5/8 surface casing, BOP will be tested by an independent surface company to 250 psi low & 5000 psi high. Hydril will be tested to 250 psi low and 2500 psi high. These low pressure tests from 250 to 300 psi will be held a minimum of 10 minutes if test is done with a test plug & 30 minutes without a test plug.

7. Estimated BHP:

4071 psi @ 9,047' TVD

8. <u>Mud Program:</u> The applicable depths & properties of this system are as follows:

Depth	Type of System	Mud Weight	Viscosity (sec)	Waterloss (cc)
0 – 1,075'	Fresh	8.4	29-32	NC
1,075' – 9,375'	OBM	8.8	50-60	-
9,375' – 18,885'	Cut Brine	8.8 - 9.2	28-32	<12

NOTE: NECESSARY MUD PRODUCTS FOR WEIGHT ADDITION & FLUID LOSS WILL BE ON LOCATION AT ALL TIMES. VISUAL MUD MONITORING EQUIPMENT (I.E. TRIP TANK) WILL BE IN PLACE TO DETECT VOLUME CHANGES INDICATING LOSS OR GAIN OF CIRCULATION VOLUME WITH ALARMS.

- 9. Auxiliary Well Control & Monitoring Equipment:
  - a. A KC will be in the drill string at all times.
  - b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times



 c. H2S detection equipment will be in operation & breathing apparatuses will be on location after the drill out of the 9-5/8" casing shoe until the 4-1/2" liner is cemented.

#### 10. Testing, Logging & Coring Program:

- a. No drill stem tests are planned.
- b. GR/N well log ran from KOP to surface.
- c. No coring is planned.

### 11.Potential Hazards:

No abnormal pressures or temperatures are expected. If H2S is encountered, Endurance Resources LLC will comply with Onshore Order #6. Regardless, all personnel will be trained & qualified with H2S safety. Rig safety equipment will all also be checked daily once drill out of the 9-5/8" casing shoe to TD. It has been noted that H2S has been encountered in the salt section. If H2S is encountered, measurements & formations will be reported to the BLM.

12.Anticipated starting date & Duration of Operations:

Road & location construction will begin after the BLM has approved the APD. Anticipated spud date will begin after BLM approval & after a drilling rig is secured. Move in operations & drilling is expected to take no more than 45 days. An additional 30-50 days will be needed to complete this well & construct surface facilities and/or lay flow lines in order to place well on production.