

Form 3160-3
(March 2012)

OCD Hobbs

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM 068820	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Endurance Resources LLC		7. If Unit or CA Agreement, Name and No.	
3a. Address P.O. Box 1466; Artesia, NM 88211		8. Lease Name and Well No. <40168> Nocaster 19 Fed 4H	
3b. Phone No. (include area code) <270329> 575.308.0722		9. API Well No. 30-025-45449	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SE/SE 330' FSL & 660' FEL Unit P At proposed prod. zone NE/NE 330' FNL & 660' FEL Unit A		10. Field and Pool or Exploratory Antelope Ridge Bell Lake, Bone Spring West <3209>	
14. Distance in miles and direction from nearest town or post office* Approx 25 miles northwest of Jal, NM		19. Sec., T. R. M. or Blk. and Survey or Area Sec 19-T23S-34E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) SHL 330'		17. Spacing Unit dedicated to this well 160 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320' (Nocaster 19-3H)		20. BLM/BIA Bond No. on file NMB000640	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3569.9		22. Approximate date work will start* 09/02/2013	
		23. Estimated duration 45 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) Kale Jackson	Date 07/05/2013
Title Sr. Completions Engineer		
Approved by (Signature) /S/ STEPHEN J. CAFFEY	Name (Printed/Typed)	Date SEP 25 2013
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval 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.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

Carlsbad Controlled Water Basin *** (Instructions on page 2)**

Approval Subject to General Requirements
& Special Stipulations Attached

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

OCT 15 2013



Endurance Resources LLC

DRILLING & OPERATIONS PROGRAM

Nocaster 19 Fed 4H

SHL: 330' FSL & 660' FEL (P)

BHL: 330' FNL & 660' FEL (A)

Sec 19-23S-34E

Lea Co, NM

1. Geological Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geological Markers

Fresh Water	311'
Rustler	1,040'
Top of Salt	1,650'
Base of Salt	4,454'
Lamar Limestone	5,100'
Delaware	5,150' Oil
Bone Spring	8,630'
1 st Bone Spring	9,750' Oil
2 nd Bone Spring	10,275' Oil
TVD: 10,500' ; MD: 14,873'	

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3. Estimated Depths of Anticipated Fresh Water, Oil or Gas

The estimated depths at which water, oil and gas will be encountered are as follows:

Water: Average depth to water: 311'. Minimum depth: 255'. Max: 430'. As reported from the New Mexico Office of the State Engineer website.

Oil & Gas: 5,150' – 10,500' (Delaware through Bone Spring)

No other formations are expected to give up oil, gas, or fresh water in measurable quantities.



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4. Proposed Casing Program:

Hole Size	Depths	Section	OD Casing	Wt	Collar	Grade	Collapse DF	Burst DF	Tension DF
17-1/2"	0' - 1,250'	Surface	13-3/8"	48	STC	H-40	1.125	1.125	1.6
12-1/4"	0' - 2,500'	Intermediate	9-5/8"	36	LTC	J-55	1.125	1.125	1.6
	2,500' - 5,100'			40	LTC	N-80	1.125	1.125	1.6
8-3/4"	0' - 9,750'	Production	5-1/2"	17	LTC	P-110	1.125	1.125	1.6
	9,750'-14,873'	Curve & Lateral		17	BTC	P-110	1.125	1.125	1.6

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.

5. Proposed Cement Program:

a. 13-3/8" Surface

Lead: 450sks ExtendaCem-CZ (Class C) (13.5ppg / 1.75cuft/sk)

Tail: 415sks HalCem-C (Class C) + 2% CaCl (14.80ppg / 1.35cuft/sk)

**Calculated w/ 50% excess on OH volumes

b. 9-5/8" Intermediate

Lead: 985sks EconoCem-HLC (Class C) +5% salt + 5 #/sk lost circulation additive (12.70ppg/ 1.97cuft/sk)

Tail: 175sks HalCem-C (Class C) +1% CaCl (14.80ppg/ 1.34cuft/sk)

**Calculated w/ 35% excess on OH volumes

c. 5-1/2" Production

Lead: 680sks VersaCem-H (Class H) +0.6% retarder +0.25#/sk defoamer (11.90ppg/ 2.25cuft/sk)

Tail: 620sks SoluCem-H (Class H) +0.4% retarder +0.25#/sk defoamer (15ppg/ 2.62cuft/sk)

**Calculated w/ 25% excess on OH volumes

NOTE: THE ABOVE CEMENT VOLUMES COULD BE REVISED PENDING FLUID CALIPER & CALIPER LOG DATA. ALL VOLUMES ARE DESIGNED TO CIRCULATE TO SURFACE.



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6. Minimum Specifications for Pressure Control:

13-5/8 (5M) 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 Kelly cock 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 13-3/8" csg through running of production casing, the well will be equipped with a 5M BOP system. Below the 9-5/8 csg shoe, this 5M 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 13-3/8 surface casing, BOP will be tested by an independent surface company to 250 psi low & 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high. Before drilling out the 9-5/8 intermediate shoe BOP will be tested by an independent service company to 250psi low and 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:

4586 psi @ 10,500' TVD



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

Depth	Type of System	Mud Weight	Viscosity (sec)	Waterloss (cc)
0' - 1,250'	Fresh Water	8.4	29	NC
1,250' - 5,100'	Brine	9.8 - 10.0	28-32	NC
5,100' - 14,873'	Cut Brine	8.6 - 9.2	28-32	NC-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:

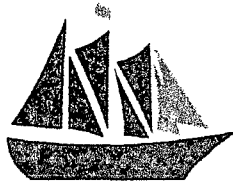
- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
- H₂S detection equipment will be in operation & breathing apparatuses will be on location after the drill out of the 13-3/8" casing shoe until the 5-1/2" casing is cemented.

10. Testing, Logging & Coring Program:

- No drill stem tests are planned.
- GR/N well log ran from KOP to surface.
- Triple combo logs from KOP to intermediate casing shoe.
- No coring is planned.

11. Potential Hazards:

No abnormal pressures or temperatures are expected. The existing Paloma 20-1 (20-23S-34E) has been producing in this prospective horizontal target area since 2011. 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 13-3/8" casing shoe to TD.



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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.

Endurance Resources LLC

HALLIBURTON
Sperry Drilling Services

Project: Lea County, NM (NAD 83)
Site: Nocaster 19 Federal
Well: Nocaster 19 Federal 4H
Wellbore: Wellbore #1
Plan: Plan #1
Rig: Patriot 4

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9927.04	0.00	0.00	9927.04	0.00	0.00	0.00	0.00	0.00	Start Build
10827.04	90.00	359.46	10500.00	572.93	-5.40	10.00	359.46	572.96	End Build
14873.63	90.00	359.46	10500.00	4619.34	-43.55	0.00	0.00	4619.55	TD

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

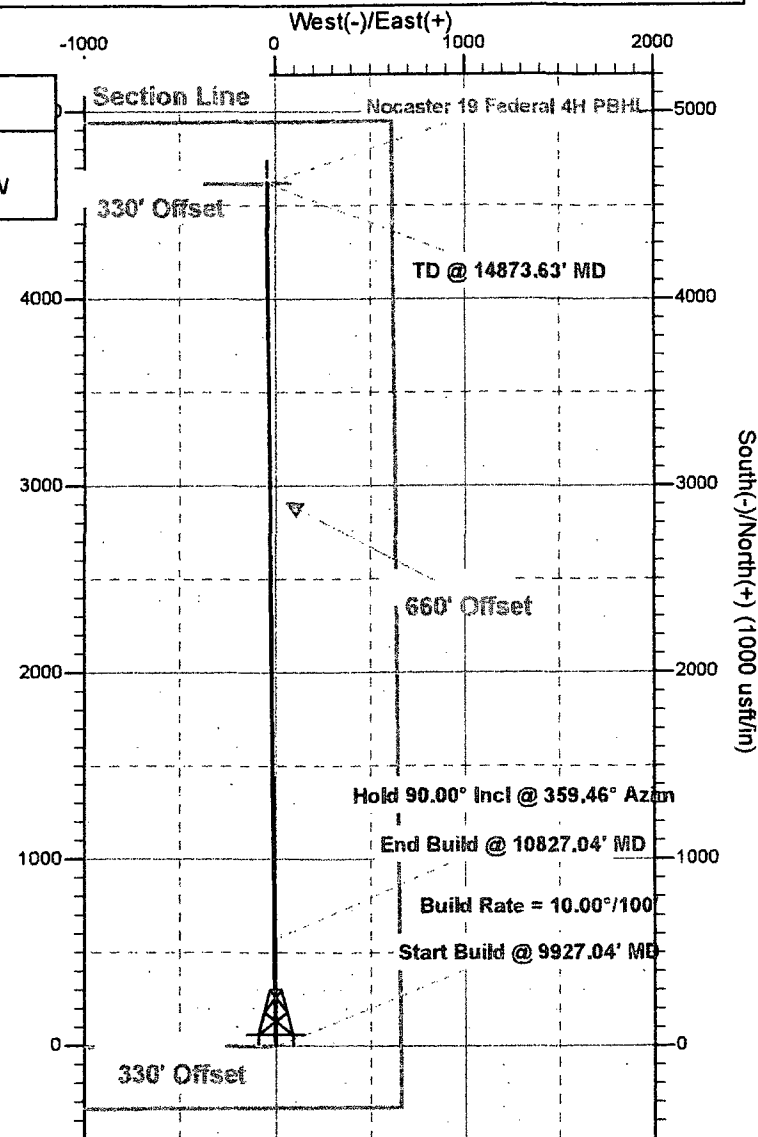
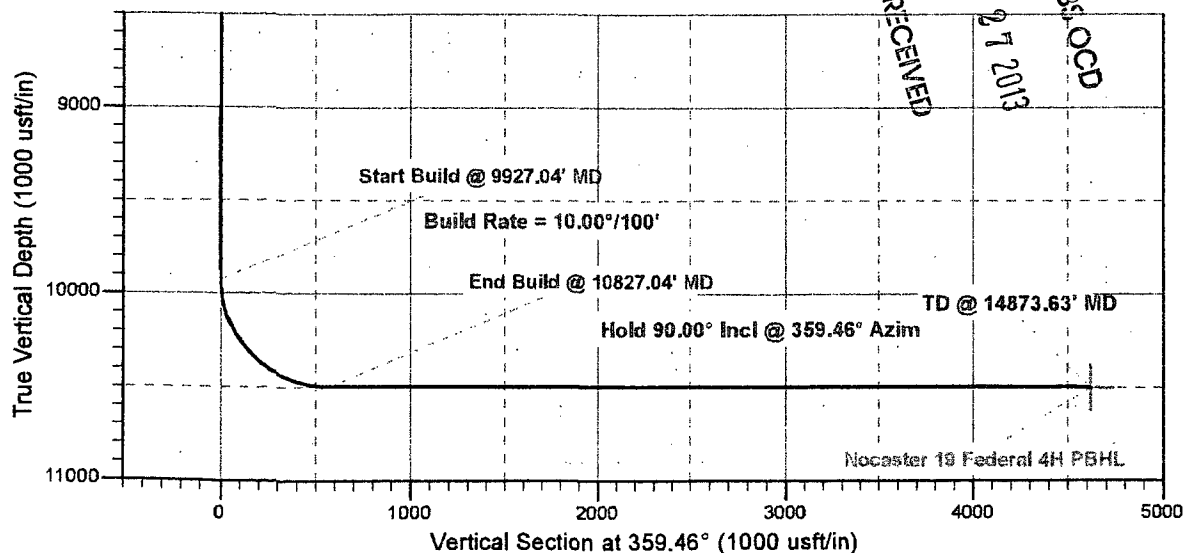
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nocaster 19 Federal 4H PBHL	10500.00	4619.34	-43.55	472577.85	797969.92	17° 47.249 N	103° 30' 10.022 W

Surface Location:

US State Plane 1983
New Mexico Eastern Zone
Elevation: GE 3569.9 + KB 17' @ 3586.90usft (Patriot 4)
Northing: 467958.51 Easting: 798013.49 Latitude: 32° 17' 1.537 N Longitude: 103° 30' 9.932 W

To convert a Magnetic Direction to a Grid Direction, Add 6.96°

Magnetic Model: BGGM2013 Date: 08-Jul-13
Azimuths to Grid North



Created By: Mike Moreno

Endurance Resources LLC

Lea County, NM (NAD 83)

Nocaster 19 Federal

Nocaster 19 Federal 4H

Wellbore #1

Plan: Plan #1

Sperry Drilling Services Standard Report

08 July, 2013

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Well Coordinates: 467,958.51 N, 798,013.49 E (32° 17' 01.54" N, 103° 30' 09.93" W)

Ground Level: 3,569.90 usft

Local Coordinate Origin:	Centered on Well Nocaster 19 Federal 4H
Viewing Datum:	GE 3569.9 + KB 17' @ 3586.90usft (Patriot 4)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet

Version: 5000.1 Build: 65

HALLIBURTON

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Lea County, NM (NAD 83)

Plan Report for Nocaster 19 Federal 4H - Plan #1

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00

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Plan Report for Nocaster 19 Federal 4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	RECEIVED +E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00

Plan Report for Nocaster 19 Federal 4H - Plan #1

RECEIVED

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
9,927.04	0.00	0.00	9,927.04	0.00	0.00	0.00	0.00
Start Build @ 9927.04' MD - Build Rate = 10.00°/100'							
10,000.00	7.30	359.46	9,999.80	4.64	-0.04	4.64	10.00
10,100.00	17.30	359.46	10,097.39	25.91	-0.24	25.91	10.00
10,200.00	27.30	359.46	10,189.79	63.80	-0.60	63.80	10.00
10,300.00	37.30	359.46	10,274.21	117.16	-1.10	117.16	10.00
10,400.00	47.30	359.46	10,348.09	184.36	-1.74	184.37	10.00
10,500.00	57.30	359.46	10,409.17	263.38	-2.48	263.39	10.00
10,600.00	67.30	359.46	10,455.60	351.80	-3.32	351.81	10.00
10,700.00	77.30	359.46	10,485.97	446.94	-4.21	446.96	10.00
10,800.00	87.30	359.46	10,499.36	545.90	-5.15	545.93	10.00
10,827.04	90.00	359.46	10,500.00	572.93	-5.40	572.96	10.00
End Build @ 10827.04' MD - Hold 90.00° Incl @ 359.46° Azim							
10,900.00	90.00	359.46	10,500.00	645.89	-6.09	645.92	0.00
11,000.00	90.00	359.46	10,500.00	745.88	-7.03	745.92	0.00
11,100.00	90.00	359.46	10,500.00	845.88	-7.97	845.92	0.00
11,200.00	90.00	359.46	10,500.00	945.88	-8.92	945.92	0.00
11,300.00	90.00	359.46	10,500.00	1,045.87	-9.86	1,045.92	0.00
11,400.00	90.00	359.46	10,500.00	1,145.87	-10.80	1,145.92	0.00
11,500.00	90.00	359.46	10,500.00	1,245.86	-11.75	1,245.92	0.00
11,600.00	90.00	359.46	10,500.00	1,345.86	-12.69	1,345.92	0.00
11,700.00	90.00	359.46	10,500.00	1,445.85	-13.63	1,445.92	0.00
11,800.00	90.00	359.46	10,500.00	1,545.85	-14.57	1,545.92	0.00
11,900.00	90.00	359.46	10,500.00	1,645.84	-15.52	1,645.92	0.00
12,000.00	90.00	359.46	10,500.00	1,745.84	-16.46	1,745.92	0.00
12,100.00	90.00	359.46	10,500.00	1,845.84	-17.40	1,845.92	0.00
12,200.00	90.00	359.46	10,500.00	1,945.83	-18.34	1,945.92	0.00
12,300.00	90.00	359.46	10,500.00	2,045.83	-19.29	2,045.92	0.00
12,400.00	90.00	359.46	10,500.00	2,145.82	-20.23	2,145.92	0.00
12,500.00	90.00	359.46	10,500.00	2,245.82	-21.17	2,245.92	0.00
12,600.00	90.00	359.46	10,500.00	2,345.81	-22.12	2,345.92	0.00
12,700.00	90.00	359.46	10,500.00	2,445.81	-23.06	2,445.92	0.00
12,800.00	90.00	359.46	10,500.00	2,545.80	-24.00	2,545.92	0.00
12,900.00	90.00	359.46	10,500.00	2,645.80	-24.94	2,645.92	0.00
13,000.00	90.00	359.46	10,500.00	2,745.80	-25.89	2,745.92	0.00
13,100.00	90.00	359.46	10,500.00	2,845.79	-26.83	2,845.92	0.00
13,200.00	90.00	359.46	10,500.00	2,945.79	-27.77	2,945.92	0.00
13,300.00	90.00	359.46	10,500.00	3,045.78	-28.71	3,045.92	0.00
13,400.00	90.00	359.46	10,500.00	3,145.78	-29.66	3,145.92	0.00
13,500.00	90.00	359.46	10,500.00	3,245.77	-30.60	3,245.92	0.00
13,600.00	90.00	359.46	10,500.00	3,345.77	-31.54	3,345.92	0.00
13,700.00	90.00	359.46	10,500.00	3,445.76	-32.49	3,445.92	0.00
13,800.00	90.00	359.46	10,500.00	3,545.76	-33.43	3,545.92	0.00
13,900.00	90.00	359.46	10,500.00	3,645.76	-34.37	3,645.92	0.00
14,000.00	90.00	359.46	10,500.00	3,745.75	-35.31	3,745.92	0.00
14,100.00	90.00	359.46	10,500.00	3,845.75	-36.26	3,845.92	0.00
14,200.00	90.00	359.46	10,500.00	3,945.74	-37.20	3,945.92	0.00
14,300.00	90.00	359.46	10,500.00	4,045.74	-38.14	4,045.92	0.00
14,400.00	90.00	359.46	10,500.00	4,145.73	-39.08	4,145.92	0.00
14,500.00	90.00	359.46	10,500.00	4,245.73	-40.03	4,245.92	0.00
14,600.00	90.00	359.46	10,500.00	4,345.72	-40.97	4,345.92	0.00

Plan Report for Nocaster 19 Federal 4H - Plan #1

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)
14,700.00	90.00	359.46	10,500.00	4,445.72	-41.91	4,445.92	0.00
14,800.00	90.00	359.46	10,500.00	4,545.72	-42.86	4,545.92	0.00
14,873.63	90.00	359.46	10,500.00	4,619.34	-43.55	4,619.55	0.00

TD @ 14873.63' MD

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,927.04	9,927.04	0.00	0.00	Start Build @ 9927.04' MD
9,927.04	9,927.04	0.00	0.00	Build Rate = 10.00°/100'
10,827.04	10,500.00	572.93	-5.40	End Build @ 10827.04' MD
10,827.04	10,500.00	572.93	-5.40	Hold 90.00° Incl @ 359.46° Azim
14,873.63	10,500.00	4,619.34	-43.55	TD @ 14873.63' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	359.46	Slot	0.00	0.00	0.00

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	14,873.63	Plan #1	MWD+SC

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Nocaster 19 Federal - plan hits target center - Point	0.00	0.00	10,500.00	4,619.34	-43.55	472,577.85	797,969.94	32° 17' 47.249 N	103° 30' 10.022 W

HOBBS OCD
SEP 27 2013
RECEIVED

North Reference Sheet for Nocaster 19 Federal - Nocaster 19 Federal 4H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GE 3569.9 + KB 17' @ 3586.90usft (Patriot 4). Northing and Easting are relative to Nocaster 19 Federal 4H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is 104° 20' 0.000 W°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 0° 0' 0.000 N°

False Easting: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 0.99998455

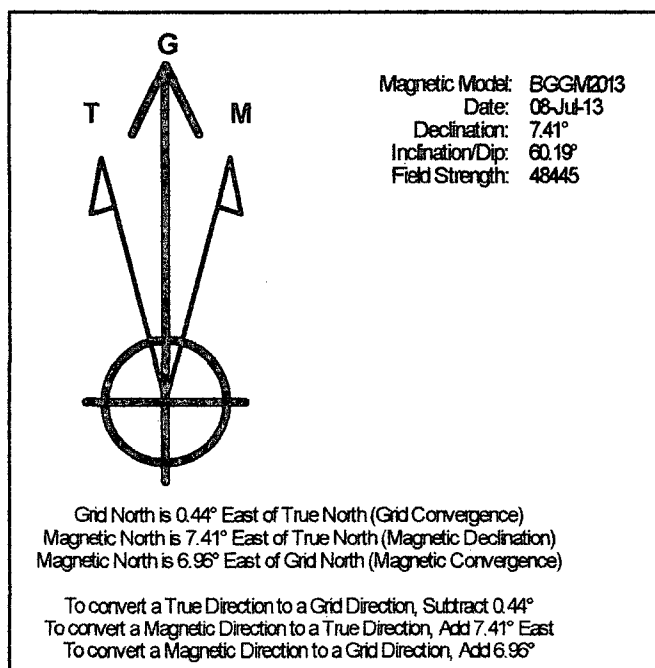
Grid Coordinates of Well: 467,958.51 usft N, 798,013.49 usft E

Geographical Coordinates of Well: 32° 17' 01.54" N, 103° 30' 09.93" W

Grid Convergence at Surface is: 0.44°

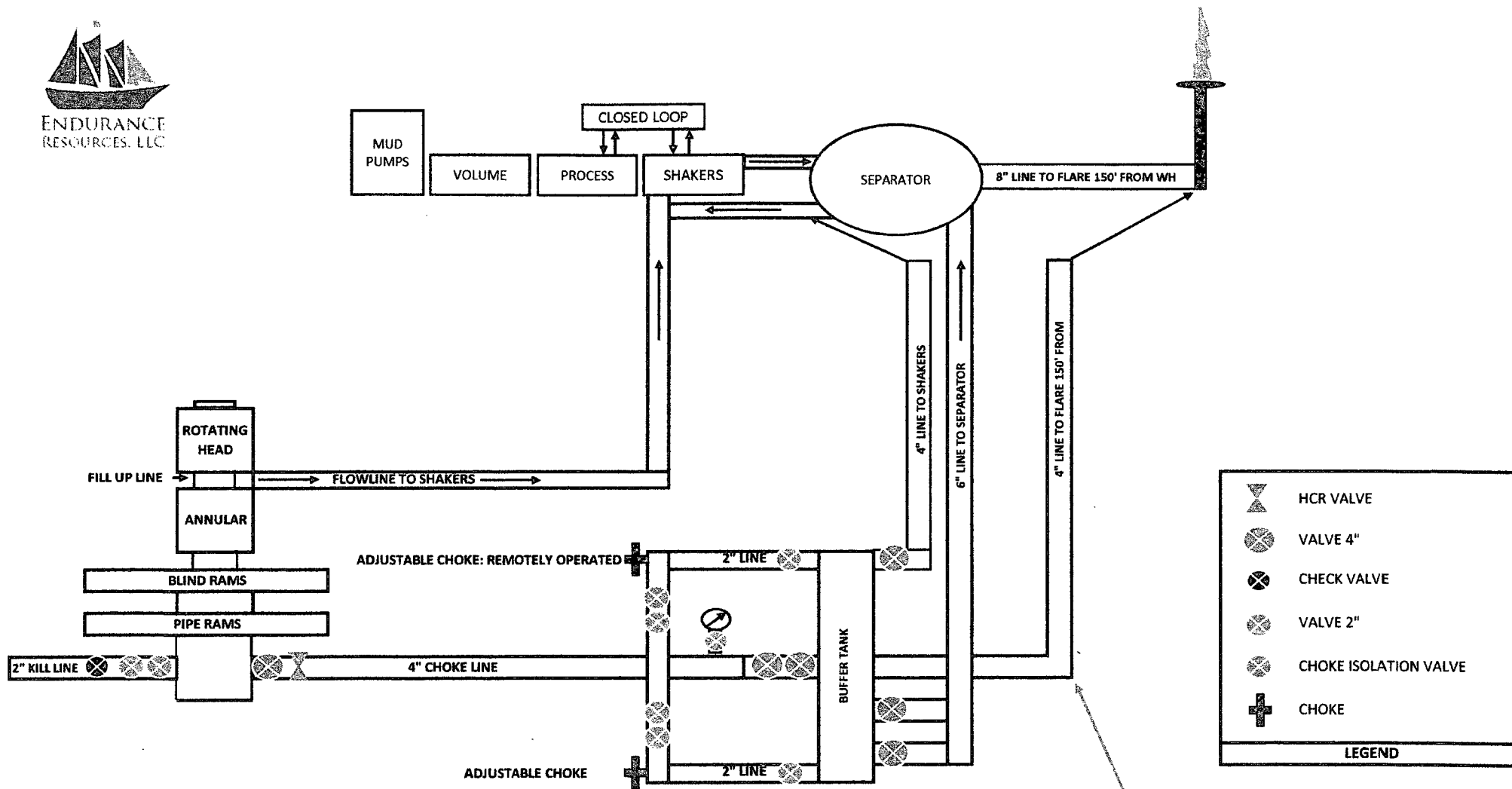
Based upon Minimum Curvature type calculations, at a Measured Depth of 14,873.63usft the Bottom Hole Displacement is 4,619.55usft in the Direction of 359.46° (Grid).

Magnetic Convergence at surface is: -6.96° (8 July 2013, , BGGM2013)



HOBBS OCD
SEP 27 2013
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5M BOP, 5M CHOKE MANIFOLD, AND CLOSED LOOP EQUIPMENT SCHEMATIC FOR 13-5/8 BOP SYSTEM TESTED TO 3M PER ONSHORE ORDER #2



TARGETED T'S. ALL TURNS WILL BE TARGETED.

OPTION TO USE FLEX HOUSE. TBD ONCE DRILLING RIG IS SECURED. WILL SUNDRY.
ALL CHOKE LINES WILL BE STRAIGHT LINES UNLESS TURNS THAT USE TEE BLOCKS OR ARE
TARGETED WITH RUNNING TEES, AND WILL BE ANCHORED TO PREVENT WHIP & REDUCE VIBRATION

HOEBS OCD
SEP 27 2013
RECEIVED



HOEBS OCD

Operating and Maintenance Plan Closure Plan

SEP 27 2013

RECEIVED

**Nocaster 19 Federal #4H
SHL: 330' FSL & 660' FEL (P)
BHL: 330' FNL & 660' FEL (A)
Sec 19-T23S-R34E
Lea County, New Mexico**

Endurance Resources LLC will be using all above ground steel pits for fluid and cuttings while drilling. If any tank develops a leak we will have immediate visual discovery, we would then transfer the fluid to another tank then remove any contaminated soil and dispose of it in the cuttings bin for transportation. All leaks should be kept to less than 5 bbls. Rig crews will monitor these tanks at all times.

Equipment List:

- (2) Mongoose Shale Shakers
- (1) 414 Centrifuge
- (1) 518 Centrifuge
- (2) Roll off Bins with Tracks
- (2) 500 bbl Frac Tanks

During drilling operations all liquids, drilling fluids and cuttings will be hauled off via R360 Permit NM-01-006 or any other approved facility.