4					ATS-16	- 91	T
Form 3160 - 3 (August 2007)	UNITED STATES	OCD	HOBBS C	DCD	FORM A OMB No Expires Ju 5. Lease Serial No.	APPROVED . 1004-0137 .ly 31, 2010	
	BUREAU OF LAND MAN	AGEMENT	DEENTER-	/ED	NMNM 132953 6. If Indian, Allotee	or Tribe Na	ne
			neemen		7. If Unit or CA Agre	ement, Name	and No.
la. Type of work: ✓		CR	_		8. Lease Name and V	Well No.	(31601
 1b. Type of Well: ✓ 2. Name of Operator End 	Dil Well Gas Well Other	√ Sin	gle Zone Multip	ple Zone	Duo Sonic 29 Fede 9. API Well No.	ral #2H	[
		2h Dhana Na			70-025	4300	5
3a. Address 203 West V Midland, Te	Vall Suite 1000 exas 79701	432-242-46	(include area code)	w	C-025 G-C	S 52	535340:
 Location of Well (Report At surface 150' FSL At proposed prod. zone 	t location clearly and in accordance with an & 1980' FWL 330' FNL & 1980' FWL	ty State requirem	ents.*) JNORTHO	DOX	11. Sec., T. R. M. or B Sec 29-25S-35E	lk. and Surve	y or Area 97
 Distance in miles and dir 11 Miles West from Ja 	ection from nearest town or post office* I, NM		LOCATI	M	12. County or Parish Lea	11 N	S. State
 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit 	150' it line, if any)	16. No. of a 640 ac	cres in lease	17. Spacir 160	g Unit dedicated to this w	vell	
 Distance from proposed I to nearest well, drilling, o applied for, on this lease, 	ocation [*] 2640' completed, ^{2640'}	19. Proposed MD 16,963 TVD 12,41	l Depth 3' 1'	20. BLM/ NMB00	BIA Bond No. on file 1220		
21. Elevations (Show wheth 3263 8 GI	her DF, KDB, RT, GL, etc.)	22. Approxim	nate date work will sta 6	rt*	23. Estimated duration	n	
		24. Attac	hments				
 Che following, completed in a Well plat certified by a re A Drilling Plan. A Surface Use Plan (if t SUPO must be filed with 	accordance with the requirements of Onshor gistered surveyor. the location is on National Forest System the appropriate Forest Service Office).	re Oil and Gas Lands, the	 Order No.1, must be a Bond to cover t Item 20 above). Operator certifit Such other site BLM. 	ttached to the the operation cation specific inf	is form: ons unless covered by an ormation and/or plans as	existing bor may be requ	d on file (see uired by the
25. Signature	Poto ?	Name	(Printed/Typed)			Date 03/09/20	16
Title	AMOR						
Approved by (Signature)	James A. Amos	Name	(Printed/Typed)			DateUN	1 4 2016
Title	FIELD MANAGER	Office		CARL	SBAD FIELD OFFI	CE	
Application approval does n conduct operations thereon Conditions of approva	ot warrant or certify that the applicant hold	ds legal or equi	table title to those right	hts in the su	bject lease which would e	or title the app	O YEARS
Title 18 U.S.C. Section States any false, fictiti	See attached NMOCD Conditions of Approval		erson knowingly and vithin its jurisdiction.	willfully to	make to any department of	or agency of	the United
(Continued on I			KZ		*(Inst	ructions	on page 2)
rlsbad Controlle	d Water Basin		05/1	7116		-	
		SEI	EATTACH	IED F	OR		с. С. Г. С.
Approval Subject to G	eneral Requirements	CO	NDITION	SOF	APPROVAL		

Approval Subject to General Requirements & Special Stipulations Attached



Endurance Resources LLC

DRILLING & OPERATIONS PROGRAM Duo Sonic 29 Federal 2H SHL: 150' FSL & 1980' FWL (N) BHL: 330' FNL & 1980' FWL (C) Sec 29-25S-35E Lea Co, NM

1. <u>Geological Name of Surface Formation</u> Permian

HOBBS OCD JUN 17 2016 RECEIVED

2. Estimated Tops of Important Geological Markers

Rustler	920'	
Top of Salt	1,258'	
Castile	3,760'	
Lamar	5,225'	
Bell Canyon	5,254'	Oil
Cherry Canyon	6,270'	Oil
Bone Spring	9,280'	Oil
1 st Bone Spring	10,330'	Oil
2 nd Bone Spring	10,600'	Oil
3 rd Bone Spring	11,950'	Oil
TVD: 12,411'; MD:	16,963'	

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: 200'. Minimum depth: 0'. Max: 400'. As reported from the New Mexico Office of the State Engineer website.

Oil & Gas: 5,254' – 12,411' (Bell Canyon to 3rd Bone Spring) No other formations are expected to give up oil, gas, or fresh water in measurable quantities.



5. Proposed Casing Program:

Casing	Hole Size	Interval	Casing OD	Casing Interval	Weight	Collar	Grade
Surface	17.5"	0'-970'	13.375"	0'-970'	54.5#	BTC	J-55
Intermediate I	12.25"	970'-9,380'	9.625"	970'-5400'	40#	BTC	HCL-80
Intermediate II	12.25"	970'-9,380'	9.625"	5400'-9380'	43.5#	BTC	HCP-110
Production	8.5"	9,380'-TD	5.5"	9380'-16,963'	20#	BTC	HCP-110

Casing	Casing Size	Collapse	Burst Design	Tension Design
		Design Factor	Factor	Factor
Surface	13.375"	2.49	6.04	16.14
Intermediate	9.625" (HCL-80)	1.48	2.20	4.24
Intermediate	9.625" (HCP-110)	1.20	1.30	2.29
Production	5.5" (HCP-110)	2.10	2.18	1.89

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 CASING

4. Proposed Cement Program:

Casing / We					
Stage	Slurry Description	Weight (ppg)	Yield (ft.³/sk)	Sacks	% Excess
Lead	EXTENDACEM - CZ	13.7	1.694	550	100
Tail	HALCEM - Class C	14.8	1.326	355	100
Casing / We	Ilbore Description: Intermediate 9 5/8" x 12 1/4"	(40# / HCL-80) / BTC, 43.	5# / HCP	-1100 / BTC)
Stage	Slurry Description	Weight	Yield	Sacks	% Excess
Lead	TUNED LIGHT - Class C	9.0	3.556	1105	50 (OH)
Tail	VERSACEM - Class H, 0.3% Super CBL, 0.2% Halad-9, 0.2% HR-800	14.4	1.247	380	50 (OH)
Casing / We	Ilbore Description: Production 5 1/2" x 8 1/2" (20	0# / HCP-110	<u>/ BTC)</u>		
Stage	Slurry Description	Weight	Yield	Sacks	% Excess
Lead	VERSACEM - Class H, 10% Bentonite, 5% Cal- Seal 60 0.1% Fe-2, 0.25 lbm D-Air 5000	11.5	2.672	1170	15 (OH)
Tail	SOLUCEM - Class H, 0.25 lbm D - AIR 5000, 0.8 % HR-601	15	2.625	520	15 (OH)

NOTE: THE ABOVE CEMENT VOLUMES COULD BE REVISED PENDING FLUID CALIPER & CALIPER LOG DATA. ALL VOLUMES ARE DESIGNED TO CIRCULATE TO SURFACE. PRODUCTION CEMENT WILL BE CIRCULATED TO AT LEAST 200' ABOVE INTERMEDIATE CASING SHOE.



5. Minimum Specifications for Pressure Control:

The system used for the intermediate (12.25" hole) and production (8.5" hole) will consist of a 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 13-3/8" csg through running of production casing, the well will be equipped with a 10M BOP system and 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 & 5000 psi high. Annular Preventer 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. Annular Preventer 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 or 30 minutes if conducted without a test plug. Annular Preventer will be held a minimum of 10 minutes from 250 to 300 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high. These low pressure tests from 250 psi low and 2500 psi high.

6. Estimated BHP:

5,585 psi @ 12,411' TVD



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

	Type of		Viscosity	
Depth	System	Mud Weight	(sec)	Waterloss (cc)
0 – 970'	Fresh	8.4 - 9.4	32-34	NC
970' - 9380'	OBM	9.0 - 9.2	55-65	<10
9380' - TD	Cut Brine	8.3 - 9.3	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.

8. 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. H_2S 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 in cemented.

9. Testing, Logging & Coring Program:

- a. No drill stem tests are planned.
- b. GR/N well log ran from KOP to surface.
- c. No open hole logs will be run.

10. 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 13-3/8" 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.

11. 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

Lea County, NM (NAD 83) Duo Sonic 29 Fed Duo Sonic 29 Fed 2H

Wellbore #1

Plan: Plan #4

Sperry Drilling Services Proposal Report

09 March, 2016

Well Coordinates: 399,398.34 N, 832,946.67 E (32° 05' 40.29" N, 103° 23' 30.02" W) Ground Level: 3,263.80 usft

Local Coordinate Origin: Viewing Datum: TVDs to System: North Reference: Unit System: Centered on Well Duo Sonic 29 Fed 2H GL 3263.80' @ 3263.80usft (TBD) N Grid API - US Survey Feet

Version: 5000.1 Build: 76

HALLIBURTON

HALLIBURTON

7

Endurance Resources LLC

Lea County, NM (NAD 83)

Plan Report for Duo Sonic 29 Fed 2H - Plan #4

Measured Vertical Depth Inclination Alignment Partial								Devi	D. 114	-	T
0.00 0.00 <th< th=""><th>Measured Depth (usft)</th><th>Inclination (°)</th><th>Azimuth (°)</th><th>Depth (usft)</th><th>+N/-S (usft)</th><th>+E/-W (usft)</th><th>Section (usft)</th><th>Rate (°/100usft)</th><th>Rate (°/100usft)</th><th>Rate (°/100usft)</th><th>Azimuth (°)</th></th<>	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	Azimuth (°)
11,838.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11,900.00 6.20 359.46 11,899.88 3.35 -0.03 3.35 10.00 10.00 0.00 0.00 12,000.00 6.20 359.46 11,897.88 2.27.4 10.00 10.00 0.00 0.00 12,000.00 6.20 359.46 12,21.55 176.35 -1.65 11.05 10.00 10.00 0.00 0.00 12,300.00 6.20 359.46 12,21.55 176.35 -1.68 11.00 10.00 0.00 0.00 12,000.00 6.20 359.46 12,342.76 341.66 -3.25 341.70 10.00 10.00 0.00 0.00 12,000.00 86.20 359.46 12,410.0 572.83 -4.15 456.57 10.00 10.00 0.00 0.00 12,000.00 56.46 12,411.00 572.83 -4.45 574.57 22.06 10.00 0.00 0.00 0.00 0.00 10.00 10.00 10.00 10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Eulid @: 1483.64/ MD - Dogleg = 10.00"/100" 11,000.00 6.20 359.46 11.997.85 22.74 -0.22 22.74 10.00 10.00 0.00 959.46 12,000.00 6.20 359.46 12.079.00 58.85 10.00 10.00 0.00 0.00 12,200.00 6.20 359.46 12.2178.40 110.57 -1.05 110.58 10.00 10.00 0.00 0.00 12,400.00 6.20 359.46 12.214.14 254.18 -2.42 254.19 10.00 10.00 0.00 0.00 12,600.00 66.20 359.46 12.239.45 436.23 -4.15 436.23 10.00 10.00 0.00 0.00 12,700.00 66.20 359.46 12.411.00 734.84 4.63 64.42 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	11,838.04	0.00	0.00	11,838.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Start Build	d @ 11838.04'	MD - Dogleg	= 10.00°/100'							
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12,600.00	76.20	359.46	12,394.45	436.23	-4.15	436.25	10.00	10.00	0.00	0.00
12,100,00 82.0 359.46 12,419,74 534.25 -3.06 537.95 10.00 10.00 0.00 0.00 End Build @ 12736.04 90.00 359.46 12,411.00 734.88 -599 734.92 0.00	40 700 00	00.00	250.40	10 100 71	524.00	F 00	524.04	10.00	10.00	0.00	0.00
$ \begin{array}{c} 2/3604 & 90.00 & 394.46 & 12.411.00 & 572.33 & -5.45 & 572.95 & 10.00 & 10.00 & 0.00 & 0.00 \\ 12,000.00 & 90.00 & 359.46 & 12.411.00 & 734.48 & -5.99 & 734.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 734.48 & -5.99 & 734.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 134.48 & -5.99 & 734.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 134.48 & -4.99 & 134.82 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 134.48 & -10.79 & 1.34.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 1,34.48 & -11.74 & 1.234.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 1,34.48 & -12.69 & 1.334.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 1,34.48 & -12.69 & 1.334.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 1,534.85 & -14.54 & 1.534.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 1,534.85 & -14.54 & 1.534.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 13,000.00 & 90.00 & 359.46 & 12.411.00 & 1,534.85 & -14.54 & 1.534.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 1,334.83 & -17.44 & 1,734.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 1,348.43 & -15.54 & 1634.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 1,348.43 & -17.44 & 1,384.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 2,34.81 & -221.9 & 2,34.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 2,34.81 & -221.9 & 2,34.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 2,34.81 & -221.9 & 2,34.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 2,34.81 & -221.9 & 2,34.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 14,000.00 & 90.00 & 359.46 & 12.411.00 & 2,34.81 & -221.9 & 2,34.92 & 0.00 & 0.00 & 0.00 & 0.00 \\ 15,000.00 & 90.00 & 359.46 & 12.411.00 & 3,34.77 & -37.80 & 3,34.92 & 0.00 & 0.00$	12,700.00	86.20	359.40	12,409.74	534.92	-5.08	534.94	10.00	10.00	0.00	0.00
End Eurol @ 1273.04 M0 - Hold Angle @ 90.07 12,800.00 90.00 359.46 12,411.00 734.82 6.69 734.92 0.00 0.00 0.00 0.00 13,000.0 90.00 359.46 12,411.00 734.88 -6.99 734.92 0.00 0.00 0.00 0.00 13,000.0 90.00 359.46 12,411.00 134.88 -7.44 834.82 0.00 </td <td>12,738.04</td> <td>90.00</td> <td>359.46</td> <td>12,411.00</td> <td>572.93</td> <td>-5.45</td> <td>572.96</td> <td>10.00</td> <td>10.00</td> <td>0.00</td> <td>0.00</td>	12,738.04	90.00	359.46	12,411.00	572.93	-5.45	572.96	10.00	10.00	0.00	0.00
12,800.00 90.00 359.46 12,411.00 634.89 -6.03 634.92 0.00	End Build	@ 12/38.04	MD - Hold An	gie @ 90.00°							
12,900.00 90.00 359.46 12,411.00 734.88 -6.99 734.92 0.00 0.00 0.00 0.00 0.00	12,800.00	90.00	359.46	12,411.00	634.89	-6.03	634.92	0.00	0.00	0.00	0.00
13,000,00 = 90,00 359,46 12,411,00 834,88 -7.94 834,92 0.00 0.00 0.00 0.00 0.00 0.00 13,000,0 90,00 359,46 12,411,00 1,034,87 -8.89 934,92 0.00 0.00 0.00 0.00 0.00 0.00 13,000,0 90,00 359,46 12,411,00 1,134,86 -10.79 1,134,82 0.00 0.00 0.00 0.00 0.00 13,000,0 90,00 359,46 12,411,00 1,334,86 -12.99 1,334,92 0.00 0.00 0.00 0.00 0.00 0.00 13,000,0 90,00 359,46 12,411,00 1,334,86 -12.99 1,334,92 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	12,900.00	90.00	359.46	12,411.00	734.88	-6.99	734.92	0.00	0.00	0.00	0.00
	13,000.00	90.00	359.46	12,411.00	834.88	-7.94	834.92	0.00	0.00	0.00	0.00
	13 100 00	00.00	350 46	12 411 00	034 87	-8.80	034 02	0.00	0.00	0.00	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	13,100.00	90.00	350 46	12,411.00	1 034 87	-0.03	1 034 02	0.00	0.00	0.00	0.00
	13,200.00	90.00	359.40	12,411.00	1 124 96	-9.04	1 134 02	0.00	0.00	0.00	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	13,300.00	90.00	359.40	12,411.00	1,134.00	-10.79	1,134.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,400.00	90.00	309.40	12,411.00	1,234.00	-11.74	1,234.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,500.00	90.00	359.40	12,411.00	1,334.80	-12.09	1,334.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,600.00	90.00	359.46	12,411.00	1,434.85	-13.64	1,434.92	0.00	0.00	0.00	0.00
13.800.00 90.00 359.46 12.411.00 1.634.84 -16.54 1.634.92 0.00 0.00 0.00 0.00 13.900.00 90.00 359.46 12.411.00 1.734.83 -17.44 1.834.92 0.00 0.00 0.00 0.00 0.00 14.100.00 90.00 359.46 12.411.00 1.934.83 -17.44 1.834.92 0.00 0.00 0.00 0.00 0.00 14.200.00 90.00 359.46 12.411.00 2.134.82 -202.92 2.134.92 0.00 0.00 0.00 0.00 14.400.00 90.00 359.46 12.411.00 2.334.81 -22.14 2.234.92 0.00 0.00 0.00 0.00 14.600.00 90.00 359.46 12.411.00 2.434.81 -23.14 2.434.92 0.00 0.00 0.00 0.00 14.700.00 90.00 359.46 12.411.00 2.434.81 -23.14 2.434.92 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <td< td=""><td>13,700.00</td><td>90.00</td><td>359.46</td><td>12,411.00</td><td>1,534.85</td><td>-14.59</td><td>1,534.92</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>	13,700.00	90.00	359.46	12,411.00	1,534.85	-14.59	1,534.92	0.00	0.00	0.00	0.00
13,900.00 90.00 359.46 12,411.00 1,734.84 -16.49 1,734.92 0.00 0.00 0.00 0.00 14,000.00 90.00 359.46 12,411.00 1,834.83 -17.44 1,834.92 0.00 0.00 0.00 0.00 14,100.00 90.00 359.46 12,411.00 2,134.82 -19.34 2,034.92 0.00 0.00 0.00 0.00 14,300.00 90.00 359.46 12,411.00 2,134.82 -20.29 2,134.92 0.00 0.00 0.00 0.00 14,600.00 90.00 359.46 12,411.00 2,234.81 -21.24 2,234.92 0.00 0.00 0.00 0.00 14,600.00 90.00 359.46 12,411.00 2,534.81 -22.14 2,334.92 0.00 0.	13,800.00	90.00	359.46	12,411.00	1,634.84	-15.54	1,634.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13,900.00	90.00	359.46	12,411.00	1,734.84	-16.49	1,734.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14,000.00	90.00	359.46	12,411.00	1,834.83	-17.44	1,834.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14 100 00	00.00	250 46	12 411 00	1 024 92	19 20	1 024 02	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14,100.00	90.00	250.40	12,411.00	2 024 92	-10.39	2 024 02	0.00	0.00	0.00	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14,200.00	90.00	359.40	12,411.00	2,034.02	-19.34	2,034.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14,300.00	90.00	359.40	12,411.00	2,134.82	-20.29	2,134.92	0.00	0.00	0.00	0.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14,400.00	90.00	359.40	12,411.00	2,234.81	-21.24	2,234.92	0.00	0.00	0.00	0.00
14,600.00 90.00 359.46 12,411.00 2,434.81 -23.14 2,434.82 0.00 0.00 0.00 0.00 14,700.00 90.00 359.46 12,411.00 2,534.80 -24.09 2,534.92 0.00 0.00 0.00 0.00 0.00 14,800.00 90.00 359.46 12,411.00 2,734.79 -26.00 2,734.92 0.00 0.00 0.00 0.00 15,000.00 90.00 359.46 12,411.00 2,934.78 -27.90 2,934.92 0.00 0.00 0.00 0.00 15,000.00 90.00 359.46 12,411.00 3,034.78 -27.90 2,934.92 0.00 0.00 0.00 0.00 15,000.00 90.00 359.46 12,411.00 3,034.77 -29.80 3,134.92 0.00 0.	14,500.00	90.00	359.46	12,411.00	2,334.81	-22.19	2,334.92	0.00	0.00	0.00	0.00
14,700.00 90.00 359.46 12,411.00 2,534.80 -24.09 2,534.92 0.00 0.00 0.00 0.00 14,800.00 90.00 359.46 12,411.00 2,634.80 -25.04 2,634.92 0.00	14,600.00	90.00	359.46	12,411.00	2,434.81	-23.14	2,434.92	0.00	0.00	0.00	0.00
14,800.00 90.00 359.46 12,411.00 2,634.80 -25.04 2,634.92 0.00	14,700.00	90.00	359.46	12,411.00	2,534.80	-24.09	2,534.92	0.00	0.00	0.00	0.00
14,900.00 90.00 359.46 12,411.00 2,734.79 -26.00 2,734.92 0.00	14.800.00	90.00	359.46	12,411.00	2,634.80	-25.04	2,634.92	0.00	0.00	0.00	0.00
15,000.00 90.00 359.46 12,411.00 2,834.79 -26.95 2,834.92 0.00 0.00 0.00 0.00 15,100.00 90.00 359.46 12,411.00 2,934.78 -27.90 2,934.92 0.00 0.00 0.00 0.00 0.00 15,200.00 90.00 359.46 12,411.00 3,034.78 -28.85 3,034.92 0.00 <td>14,900.00</td> <td>90.00</td> <td>359.46</td> <td>12,411.00</td> <td>2,734.79</td> <td>-26.00</td> <td>2,734.92</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	14,900.00	90.00	359.46	12,411.00	2,734.79	-26.00	2,734.92	0.00	0.00	0.00	0.00
15,100.00 90.00 359.46 12,411.00 2,934.78 -27.90 2,934.92 0.00	15,000.00	90.00	359.46	12,411.00	2,834.79	-26.95	2,834.92	0.00	0.00	0.00	0.00
15,100.00 90.00 359.46 12,411.00 2,934.76 -27.90 2,934.92 0.00 0.00 0.00 0.00 100 0.00	15 100 00	00.00	250 46	12 411 00	2 024 79	27.00	2 024 02	0.00	0.00	0.00	0.00
15,200.00 90.00 359.46 12,411.00 3,034.77 -28.83 3,034.92 0.00	15,100.00	90.00	359.40	12,411.00	2,934.70	-27.90	2,934.92	0.00	0.00	0.00	0.00
15,300.00 90.00 359.46 12,411.00 3,134.77 -30.75 3,234.92 0.00	15,200.00	90.00	309.40	12,411.00	3,034.70	-20.00	3,034.92	0.00	0.00	0.00	0.00
15,400.00 90.00 359.46 12,411.00 3,334.76 -31.70 3,334.92 0.00 0.00 0.00 0.00 0.00 15,500.00 90.00 359.46 12,411.00 3,434.76 -31.70 3,334.92 0.00	15,300.00	90.00	309.40	12,411.00	3,134.77	-29.00	3,134.92	0.00	0.00	0.00	0.00
15,500.00 90.00 359.46 12,411.00 3,534.76 -31.70 3,534.92 0.00	15,400.00	90.00	359.40	12,411.00	3,234.11	-30.75	3,234.92	0.00	0.00	0.00	0.00
15,600.00 90.00 359.46 12,411.00 3,434.76 -32.65 3,434.92 0.00 0.00 0.00 0.00 15,700.00 90.00 359.46 12,411.00 3,534.76 -33.60 3,534.92 0.00 0.00 0.00 0.00 0.00 15,800.00 90.00 359.46 12,411.00 3,634.75 -34.55 3,634.92 0.00 0.00 0.00 0.00 0.00 15,900.00 90.00 359.46 12,411.00 3,734.75 -35.50 3,734.92 0.00 0.00 0.00 0.00 16,000.00 90.00 359.46 12,411.00 3,934.74 -37.40 3,934.92 0.00 0.00 0.00 0.00 16,100.00 90.00 359.46 12,411.00 4,034.73 -38.35 4,034.92 0.00 0.00 0.00 0.00 16,200.00 90.00 359.46 12,411.00 4,134.73 -39.30 4,134.92 0.00 0.00 0.00 0.00 16,300.00 90.00 359.46 12,411.00 4,234.72 -40.25 4,	15,500.00	90.00	339.40	12,411.00	3,334.70	-31.70	3,334.92	0.00	0.00	0.00	0.00
15,700.00 90.00 359.46 12,411.00 3,534.76 -33.60 3,534.92 0.00 0.00 0.00 0.00 15,800.00 90.00 359.46 12,411.00 3,634.75 -34.55 3,634.92 0.00 0.00 0.00 0.00 0.00 15,900.00 90.00 359.46 12,411.00 3,734.75 -35.50 3,734.92 0.00 0.00 0.00 0.00 0.00 16,000.00 90.00 359.46 12,411.00 3,834.74 -36.45 3,834.92 0.00 0.00 0.00 0.00 0.00 16,100.00 90.00 359.46 12,411.00 4,034.73 -38.35 4,034.92 0.00 0.00 0.00 0.00 16,200.00 90.00 359.46 12,411.00 4,134.73 -39.30 4,134.92 0.00 0.00 0.00 0.00 0.00 16,400.00 90.00 359.46 12,411.00 4,234.72 -40.25 4,234.92 0.00 0.00 0.00 0.00 16,600.00 90.00 359.46 12,411.00 4,334.72	15,600.00	90.00	359.46	12,411.00	3,434.76	-32.65	3,434.92	0.00	0.00	0.00	0.00
15,800.00 90.00 359.46 12,411.00 3,634.75 -34.55 3,634.92 0.00 0.00 0.00 0.00 15,900.00 90.00 359.46 12,411.00 3,734.75 -35.50 3,734.92 0.00 0.00 0.00 0.00 0.00 16,000.00 90.00 359.46 12,411.00 3,834.74 -36.45 3,834.92 0.00 0.00 0.00 0.00 0.00 16,100.00 90.00 359.46 12,411.00 3,934.74 -37.40 3,934.92 0.00 0.00 0.00 0.00 16,200.00 90.00 359.46 12,411.00 4,034.73 -38.35 4,034.92 0.00 0.00 0.00 0.00 16,300.00 90.00 359.46 12,411.00 4,134.73 -39.30 4,134.92 0.00 0.00 0.00 0.00 0.00 16,400.00 90.00 359.46 12,411.00 4,234.72 -40.25 4,234.92 0.00 0.00 0.00 0.00 0.00 16,600.00 90.00 359.46 12,411.00 4,334.72	15,700.00	90.00	359.46	12,411.00	3,534.76	-33.60	3,534.92	0.00	0.00	0.00	0.00
15,900.00 90.00 359.46 12,411.00 3,734.75 -35.50 3,734.92 0.00 0.00 0.00 0.00 16,000.00 90.00 359.46 12,411.00 3,834.74 -36.45 3,834.92 0.00 0.00 0.00 0.00 0.00 16,100.00 90.00 359.46 12,411.00 3,934.74 -37.40 3,934.92 0.00 0.00 0.00 0.00 0.00 16,200.00 90.00 359.46 12,411.00 4,034.73 -38.35 4,034.92 0.00 0.00 0.00 0.00 0.00 16,300.00 90.00 359.46 12,411.00 4,134.73 -39.30 4,134.92 0.00 0.00 0.00 0.00 16,400.00 90.00 359.46 12,411.00 4,234.72 -40.25 4,234.92 0.00 0.00 0.00 0.00 0.00 16,600.00 90.00 359.46 12,411.00 4,334.72 -41.20 4,334.92 0.00 0.00 0.00 0.00 16,600.00 90.00 359.46 12,411.00 4,534.71	15,800.00	90.00	359.46	12,411.00	3,634.75	-34.55	3,634.92	0.00	0.00	0.00	0.00
16,000.00 90.00 359.46 12,411.00 3,834.74 -36.45 3,834.92 0.00 0.00 0.00 0.00 16,100.00 90.00 359.46 12,411.00 3,934.74 -37.40 3,934.92 0.00 0.00 0.00 0.00 16,200.00 90.00 359.46 12,411.00 4,034.73 -38.35 4,034.92 0.00 0.00 0.00 0.00 16,300.00 90.00 359.46 12,411.00 4,134.73 -39.30 4,134.92 0.00 0.00 0.00 0.00 16,400.00 90.00 359.46 12,411.00 4,234.72 -40.25 4,234.92 0.00 0.00 0.00 0.00 16,500.00 90.00 359.46 12,411.00 4,334.72 -41.20 4,334.92 0.00 0.00 0.00 0.00 16,600.00 90.00 359.46 12,411.00 4,434.72 -42.15 4,434.92 0.00 0.00 0.00 0.00 16,600.00 90.00 359.46 12,411.00 4,534.71 -43.10 4,534.92 0.00 <t< td=""><td>15,900.00</td><td>90.00</td><td>359.46</td><td>12,411.00</td><td>3,734.75</td><td>-35.50</td><td>3,734.92</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	15,900.00	90.00	359.46	12,411.00	3,734.75	-35.50	3,734.92	0.00	0.00	0.00	0.00
16,100.00 90.00 359.46 12,411.00 3,934.74 -37.40 3,934.92 0.00 0.00 0.00 0.00 0.00 16,200.00 90.00 359.46 12,411.00 4,034.73 -38.35 4,034.92 0.00	16,000.00	90.00	359.46	12,411.00	3,834.74	-36.45	3,834.92	0.00	0.00	0.00	0.00
16,100.00 90.00 359.46 12,411.00 5,934.74 -37.40 5,934.92 0.00	10 100 00	00.00	250 46	12 411 00	2 024 74	27.40	2 024 02	0.00	0.00	0.00	0.00
16,200.00 90.00 359.46 12,411.00 4,034.73 -36.35 4,034.92 0.00	16,100.00	90.00	309.40	12,411.00	3,934.74	-37.40	3,934.92	0.00	0.00	0.00	0.00
16,300.00 90.00 359.46 12,411.00 4,134.73 -39.30 4,134.92 0.00	16,200.00	90.00	359.40	12,411.00	4,034.73	-30.30	4,034.92	0.00	0.00	0.00	0.00
16,400.00 90.00 359.46 12,411.00 4,234.72 -40.25 4,234.92 0.00 <t< td=""><td>16,300.00</td><td>90.00</td><td>359.40</td><td>12,411.00</td><td>4,134.73</td><td>-39.30</td><td>4,134.92</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	16,300.00	90.00	359.40	12,411.00	4,134.73	-39.30	4,134.92	0.00	0.00	0.00	0.00
10,000 90.00 359.46 12,411.00 4,334.72 -41.20 4,334.92 0.00 0	16,400.00	90.00	359.46	12,411.00	4,234.72	-40.25	4,234.92	0.00	0.00	0.00	0.00
16,600.00 90.00 359.46 12,411.00 4,434.72 -42.15 4,434.92 0.00 0.00 0.00 0.00 0.00 16,700.00 90.00 359.46 12,411.00 4,534.71 -43.10 4,534.92 0.00 0.00 0.00 0.00 0.00 16,800.00 90.00 359.46 12,411.00 4,634.71 -44.05 4,634.92 0.00 0.00 0.00 0.00 16,900.00 90.00 359.46 12,411.00 4,734.70 -45.01 4,734.92 0.00 0.00 0.00 0.00 16,963.93 90.00 359.46 12,411.00 4,798.63 -45.61 4,798.85 0.00 0.00 0.00 0.00 16,963.93' 90.00 359.46 12,411.00 4,798.63 -45.61 4,798.85 0.00 0.00 0.00 0.00 16,963.93' MD - Duo Sonic 29 Fed 2H BHL HEL	16,500.00	90.00	359.46	12,411.00	4,334.72	-41.20	4,334.92	0.00	0.00	0.00	0.00
16,700.00 90.00 359.46 12,411.00 4,534.71 -43.10 4,534.92 0.00 <t< td=""><td>16,600.00</td><td>90.00</td><td>359.46</td><td>12,411.00</td><td>4,434.72</td><td>-42.15</td><td>4,434.92</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	16,600.00	90.00	359.46	12,411.00	4,434.72	-42.15	4,434.92	0.00	0.00	0.00	0.00
16,800.00 90.00 359.46 12,411.00 4,634.71 -44.05 4,634.92 0.00 <t< td=""><td>16,700.00</td><td>90.00</td><td>359.46</td><td>12,411.00</td><td>4,534.71</td><td>-43.10</td><td>4,534.92</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	16,700.00	90.00	359.46	12,411.00	4,534.71	-43.10	4,534.92	0.00	0.00	0.00	0.00
16,900.00 90.00 359.46 12,411.00 4,734.70 -45.01 4,734.92 0.00 <t< td=""><td>16,800.00</td><td>90.00</td><td>359.46</td><td>12,411.00</td><td>4,634.71</td><td>-44.05</td><td>4,634.92</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	16,800.00	90.00	359.46	12,411.00	4,634.71	-44.05	4,634.92	0.00	0.00	0.00	0.00
16,963.93 90.00 359.46 12,411.00 4,798.63 -45.61 4,798.85 0.00 0.00 0.00 0.00 TD @ 16963.93' MD - Duo Sonic 29 Fed 2H BHL	16,900.00	90.00	359.46	12,411,00	4,734,70	-45.01	4,734,92	0.00	0.00	0.00	0.00
TD @ 16963.93' MD - Duo Sonic 29 Fed 2H BHL	16,963,93	3 90.00	359.46	12,411,00	4,798,63	-45.61	4,798,85	0.00	0.00	0.00	0.00
	TD @ 16	963.93' MD - D	uo Sonic 29	Fed 2H BHL		and the state				- 1. S	1

COMPASS

HALLIBURTON

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Endurance Resources LLC

Survey Tool

MWD+SC

Lea County, NM (NAD 83)

Plan Report for Duo Sonic 29 Fed 2H - Plan #4

Plan Annotations

Measured Vertical		Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
11,838.04	11,838.04	0.00	0.00	Start Build @ 11838.04' MD
11,838.04	11,838.04	0.00	0.00	$Dogleg = 10.00^{\circ}/100^{\circ}$
12,738.04	12,411.00	572.93	-5.45	End Build @ 12738.04' MD
12,738.04	12,411.00	572.93	-5.45	Hold Angle @ 90.00°
16,963.93	12,411.00	4,798.63	-45.61	TD @ 16963.93' MD

Vertical Section Information

	Angle			Origin	Origin		Start
	Туре	Target	Azimuth (°)	Туре	+N/_S (usft)	+E/-W (usft)	TVD (usft)
TD		No Target (Freehand)	359.46	Slot	0.00	0.00	0.00
-							

Survey tool program

From	То		Survey/Plan
(usft)	(usft)		
0.00	16,963.93	Plan #4	

Targets associated with this wellbore

	TVD	+N/-S	+E/-W	
Target Name	(usft)	(usft)	(usft)	Shape
Duo Sonic 29 Fed 2H BHL	12,411.00	4,798.63	-45.61	Point

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North Reference Sheet for Duo Sonic 29 Fed - Duo Sonic 29 Fed 2H - 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 GL 3263.80' @ 3263.80usft (TBD). Northing and Easting are relative to Duo Sonic 29 Fed 2H 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 -104.33°, 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: 1.00000649

Grid Coordinates of Well: 399,398.34 usft N, 832,946.67 usft E Geographical Coordinates of Well: 32° 05' 40.29" N, 103° 23' 30.02" W Grid Convergence at Surface is: 0.50°

Based upon Minimum Curvature type calculations, at a Measured Depth of 16,963.93usft the Bottom Hole Displacement is 4,798.85usft in the Direction of 359.46° (Grid).

Magnetic Convergence at surface is: -6.58° (9 March 2016, , BGGM2015)

