

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Endeavor Energy Resources, LLP 110 N. MARIENFELD Street, Suite 200 Midland, Texas 79701		² OGRID Number 190595
		³ Reason for Filing Code/ Effective Date RT 45920 hrs Feb 2015
⁴ API Number 30 - 025-41370	⁵ Pool Name RED HILLS; UPPER BS SHALE	⁶ Pool Code 97900
⁷ Property Code 400900 40328	⁸ Property Name Battle Axe Federal Com	⁹ Well Number 2H

II. ¹⁰ Surface Location

UL or lot no. E	Section 2	Township 26S	Range 33E	Lot Idn	Feet from the 2260'	South/North line North	Feet from the 380'	East/West line West	County Lea
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¹¹ Bottom Hole Location

UL or lot no. D	Section 35	Township 25S	Range 33E	Lot Idn	Feet from the 330' 351	North/South line North	Feet from the 380' 377	East/West line West	County Lea
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

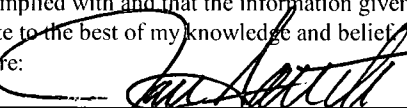
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
241472	Southern Union Gas Services, LTD 301 Commerce Suite 700 Ft. Worth, Texas 76102	G
166418	Oasis Transport and Marking Corp 2508 FM 307 Midland, Texas 79706	O
Testing Allowable		

IV. Well Completion Data

²¹ Spud Date 09/20/2013	²² Ready Date	²³ TD 9500' 16233	²⁴ PBTD 16,142'	²⁵ Perforations See attached sheet 1-33 stages	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	950	825		
12.25	9.625	4900	1205		
8.75	5.5	9500	1250		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 	OIL CONSERVATION DIVISION	
Printed name: Jan South	Approved by: 	
Title: Regulatory Analyst	Title: Petroleum Engineer	
E-mail Address: jsouth@eeronline.com	Approval Date: 02/09/15	
Date: 1/16/2015	Phone: 432-687-1575	

E-PERMITTING

P&A NR

INT to P&A

CSNG

TA

P&A R

Test Allowance

CHG Loc

FEB 09 2015

Battle Axe Fed Com #2H PERFS

Proposed 9/23/14

	Bridge Plug	Perf Intervals:		
		1	2	3
	16,140	PBTD		
	10	ft setback		
Stage 1	N/A	16,130	16,070	16,010
Stage 2	15,970	15,930	15,870	15,810
Stage 3	15,770	15,730	15,670	15,610
Stage 4	15,570	15,530	15,470	15,410
Stage 5	15,370	15,330	15,270	15,210
Stage 6	15,170	15,130	15,070	15,010
Stage 7	14,970	14,930	14,870	14,810
Stage 8	14,770	14,730	14,670	14,610
Stage 9	14,570	14,530	14,470	14,410
Stage 10	14,370	14,330	14,270	14,210
Stage 11	14,170	14,130	14,070	14,010
Stage 12	13,970	13,930	13,870	13,810
Stage 13	13,770	13,730	13,670	13,610
Stage 14	13,570	13,530	13,470	13,410
Stage 15	13,370	13,330	13,270	13,210
Stage 16	13,170	13,130	13,070	13,010
Stage 17	12,970	12,930	12,870	12,810
Stage 18	12,770	12,730	12,670	12,610
Stage 19	12,570	12,530	12,470	12,410
Stage 20	12,370	12,330	12,270	12,210
Stage 21	12,170	12,130	12,070	12,010
Stage 22	11,970	11,930	11,870	11,810
Stage 23	11,770	11,730	11,670	11,610
Stage 24	11,570	11,530	11,470	11,410
Stage 25	11,370	11,330	11,270	11,210
Stage 26	11,170	11,130	11,070	11,010
Stage 27	10,970	10,930	10,870	10,810
Stage 28	10,770	10,730	10,670	10,610
Stage 29	10,570	10,530	10,470	10,410
Stage 30	10,370	10,330	10,270	10,210
Stage 31	10,170	10,130	10,070	10,010
Stage 32	9,970	9,930	9,870	9,810
Stage 33	9,770	9,730	9,670	9,610
Last Stage				

60 ft perf to perf
80 ft between stages
200 ft stages

3 intervals per stage
18 holes per interval
54 holes per stage

EOC 9711' MD 88.1* 9372.0' TVD
9617 MD 76.8* 9360.3' TVD



HOBESOC

FEB 02 2015

RECEIVED

Endeavor Energy Resource

Lea County, NM

Sec 35-2, T26S, R33E

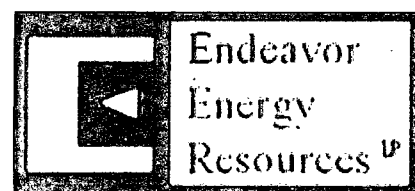
Battle Axe Fed #2H

Original Wellbore

Design: Original Wellbore

Survey Report - Geographic

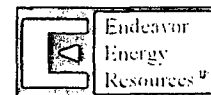
30 August, 2014





Intrepid-DDS

Survey Report - Geographic



Company: Endeavor Energy Resource
Project: Lea County, NM
Site: Sec 35-2, T26S, R33E
Well: Battle Axe Fed #2H
Wellbore: Original Wellbore
Design: Original Wellbore

Local Co-ordinate Reference: Site Sec 35-2, T26S, R33E
TVD Reference: WELL @ 3348.0usft (Original Well Elev)
MD Reference: WELL @ 3348.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 35-2, T26S, R33E				
Site Position:		Northing:	391,367.40 usft	Latitude:	32° 4' 21.616 N
From:	Map	Easting:	783,838.60 usft	Longitude:	103° 25' 1.211 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	Battle Axe Fed #2H					
Well Position	+N/-S	0.0 usft	Northing:	391,367.40 usft	Latitude:	32° 4' 21.616 N
	+E/-W	0.0 usft	Easting:	783,838.60 usft	Longitude:	103° 25' 1.211 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,348.0 usft	Ground Level:	3,322.0 usft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	8/14/2014	(°)	(°)	(nT)
			7.11	59.99	48,226

Design	Original Wellbore				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0		0.01

Survey Program	Date 8/30/2014				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	8,500.0	BigDog Gyro Data (Original Wellbore)	NS-GYRO-MS	North sensing gyrocompassing m/s	
8,603.0	16,233.0	MWD Survey (Original Wellbore)	MWD	MWD - Standard	

Survey									
Measured	Vertical								
Depth	Depth	+N-S	+E-W	Map	Map				
(usft)	(usft)	(usft)	(usft)	Northing	Easting	Latitude	Longitude		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)				
0.0	0.0	0.0	0.0	391,367.40	783,838.60	32° 4' 21.616 N	103° 25' 1.211 W		
100.0	0.37	358.65	100.0	391,367.72	783,838.59	32° 4' 21.620 N	103° 25' 1.211 W		
First Gyro Survey									
200.0	0.38	5.07	200.0	391,368.37	783,838.61	32° 4' 21.626 N	103° 25' 1.210 W		
300.0	0.38	25.54	300.0	391,369.00	783,838.78	32° 4' 21.632 N	103° 25' 1.208 W		
400.0	0.35	29.05	400.0	391,369.57	783,839.08	32° 4' 21.638 N	103° 25' 1.205 W		
500.0	0.17	74.92	500.0	391,369.88	783,839.37	32° 4' 21.641 N	103° 25' 1.201 W		
600.0	0.17	79.64	600.0	391,369.94	783,839.66	32° 4' 21.641 N	103° 25' 1.198 W		
700.0	0.16	80.47	700.0	391,369.99	783,839.94	32° 4' 21.642 N	103° 25' 1.195 W		
800.0	0.37	83.61	800.0	391,370.05	783,840.40	32° 4' 21.642 N	103° 25' 1.189 W		
900.0	0.38	86.29	900.0	391,370.11	783,841.05	32° 4' 21.643 N	103° 25' 1.182 W		



Intrepid-DDS

Survey Report - Geographic



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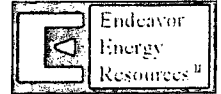
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MD Reference: WELL @ 3348.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,000.0	0.43	88.44	1,000.0	2.7	3.2	391,370.14	783,841.76	32° 4' 21.643 N	103° 25' 1.174 W
1,100.0	0.42	90.27	1,100.0	2.7	3.9	391,370.15	783,842.50	32° 4' 21.643 N	103° 25' 1.165 W
1,200.0	0.43	97.79	1,200.0	2.7	4.6	391,370.10	783,843.24	32° 4' 21.643 N	103° 25' 1.156 W
1,300.0	0.35	106.27	1,300.0	2.6	5.3	391,369.96	783,843.90	32° 4' 21.641 N	103° 25' 1.149 W
1,400.0	0.17	81.59	1,400.0	2.5	5.7	391,369.89	783,844.34	32° 4' 21.641 N	103° 25' 1.144 W
1,500.0	0.10	27.06	1,500.0	2.6	5.9	391,369.99	783,844.53	32° 4' 21.642 N	103° 25' 1.141 W
1,600.0	0.10	339.81	1,600.0	2.8	5.9	391,370.15	783,844.54	32° 4' 21.643 N	103° 25' 1.141 W
1,700.0	0.12	300.06	1,700.0	2.9	5.8	391,370.29	783,844.42	32° 4' 21.644 N	103° 25' 1.143 W
1,800.0	0.14	282.64	1,800.0	3.0	5.6	391,370.37	783,844.21	32° 4' 21.645 N	103° 25' 1.145 W
1,900.0	0.10	299.05	1,900.0	3.0	5.4	391,370.44	783,844.01	32° 4' 21.646 N	103° 25' 1.147 W
2,000.0	0.05	348.42	2,000.0	3.1	5.3	391,370.52	783,843.93	32° 4' 21.647 N	103° 25' 1.148 W
2,100.0	0.08	63.05	2,100.0	3.2	5.4	391,370.60	783,843.98	32° 4' 21.648 N	103° 25' 1.148 W
2,200.0	0.13	75.58	2,200.0	3.3	5.6	391,370.66	783,844.15	32° 4' 21.648 N	103° 25' 1.146 W
2,300.0	0.15	255.68	2,300.0	3.3	5.5	391,370.65	783,844.13	32° 4' 21.648 N	103° 25' 1.146 W
2,400.0	0.31	269.31	2,400.0	3.2	5.1	391,370.62	783,843.74	32° 4' 21.648 N	103° 25' 1.151 W
2,500.0	0.32	261.15	2,500.0	3.2	4.6	391,370.57	783,843.19	32° 4' 21.647 N	103° 25' 1.157 W
2,600.0	0.17	248.63	2,600.0	3.1	4.2	391,370.47	783,842.78	32° 4' 21.646 N	103° 25' 1.162 W
2,700.0	0.08	248.11	2,700.0	3.0	4.0	391,370.39	783,842.57	32° 4' 21.646 N	103° 25' 1.164 W
2,800.0	0.09	17.95	2,800.0	3.0	3.9	391,370.44	783,842.53	32° 4' 21.646 N	103° 25' 1.165 W
2,900.0	0.12	20.74	2,900.0	3.2	4.0	391,370.61	783,842.59	32° 4' 21.648 N	103° 25' 1.164 W
3,000.0	0.20	39.98	3,000.0	3.4	4.1	391,370.85	783,842.74	32° 4' 21.650 N	103° 25' 1.162 W
3,100.0	0.48	65.46	3,100.0	3.8	4.6	391,371.15	783,843.24	32° 4' 21.653 N	103° 25' 1.156 W
3,200.0	0.91	79.66	3,200.0	4.1	5.8	391,371.47	783,844.40	32° 4' 21.656 N	103° 25' 1.143 W
3,300.0	1.34	91.48	3,299.9	4.2	7.8	391,371.58	783,846.35	32° 4' 21.657 N	103° 25' 1.120 W
3,400.0	1.53	96.56	3,399.9	4.0	10.2	391,371.40	783,848.84	32° 4' 21.655 N	103° 25' 1.091 W
3,500.0	1.56	96.48	3,499.9	3.7	12.9	391,371.09	783,851.52	32° 4' 21.652 N	103° 25' 1.060 W
3,600.0	1.54	95.94	3,599.8	3.4	15.6	391,370.80	783,854.21	32° 4' 21.649 N	103° 25' 1.029 W
3,700.0	1.53	83.99	3,699.8	3.4	18.3	391,370.80	783,856.88	32° 4' 21.648 N	103° 25' 0.998 W
3,800.0	1.49	75.36	3,799.8	3.9	20.9	391,371.27	783,859.46	32° 4' 21.653 N	103° 25' 0.968 W
3,900.0	1.32	84.52	3,899.7	4.3	23.3	391,371.71	783,861.87	32° 4' 21.657 N	103° 25' 0.940 W
4,000.0	1.21	82.62	3,999.7	4.6	25.5	391,371.95	783,864.06	32° 4' 21.659 N	103° 25' 0.914 W
4,100.0	1.14	93.31	4,099.7	4.6	27.5	391,372.03	783,866.10	32° 4' 21.660 N	103° 25' 0.891 W
4,200.0	0.67	122.38	4,199.7	4.3	29.0	391,371.66	783,867.59	32° 4' 21.656 N	103° 25' 0.873 W
4,300.0	0.55	117.56	4,299.7	3.7	29.9	391,371.13	783,868.51	32° 4' 21.651 N	103° 25' 0.863 W
4,400.0	0.86	94.96	4,399.7	3.4	31.1	391,370.84	783,869.68	32° 4' 21.648 N	103° 25' 0.849 W
4,500.0	1.26	98.07	4,499.6	3.2	32.9	391,370.62	783,871.52	32° 4' 21.645 N	103° 25' 0.828 W
4,600.0	1.51	108.86	4,599.6	2.6	35.3	391,370.04	783,873.85	32° 4' 21.640 N	103° 25' 0.801 W
4,700.0	2.17	115.55	4,699.6	1.4	38.2	391,368.80	783,876.81	32° 4' 21.627 N	103° 25' 0.766 W
4,800.0	2.83	118.04	4,799.5	-0.6	42.1	391,366.82	783,880.69	32° 4' 21.607 N	103° 25' 0.721 W
4,900.0	2.82	117.66	4,899.4	-2.9	46.5	391,364.52	783,885.05	32° 4' 21.584 N	103° 25' 0.671 W
5,000.0	1.82	103.47	4,999.3	-4.4	50.2	391,363.01	783,888.77	32° 4' 21.569 N	103° 25' 0.628 W
5,100.0	0.48	35.46	5,099.2	-4.4	52.0	391,362.98	783,890.56	32° 4' 21.568 N	103° 25' 0.607 W
5,200.0	0.17	348.95	5,199.2	-3.9	52.2	391,363.46	783,890.78	32° 4' 21.573 N	103° 25' 0.605 W
5,300.0	0.06	56.71	5,299.2	-3.8	52.2	391,363.64	783,890.79	32° 4' 21.575 N	103° 25' 0.604 W
5,400.0	0.06	58.96	5,399.2	-3.7	52.3	391,363.69	783,890.88	32° 4' 21.575 N	103° 25' 0.603 W
5,500.0	0.04	76.26	5,499.2	-3.7	52.4	391,363.73	783,890.96	32° 4' 21.576 N	103° 25' 0.603 W
5,600.0	0.04	31.47	5,599.2	-3.6	52.4	391,363.77	783,891.01	32° 4' 21.576 N	103° 25' 0.602 W
5,700.0	0.04	284.55	5,699.2	-3.6	52.4	391,363.81	783,891.00	32° 4' 21.576 N	103° 25' 0.602 W
5,800.0	0.04	267.51	5,799.2	-3.6	52.3	391,363.81	783,890.93	32° 4' 21.576 N	103° 25' 0.603 W
5,900.0	0.06	318.44	5,899.2	-3.5	52.3	391,363.85	783,890.86	32° 4' 21.577 N	103° 25' 0.604 W
6,000.0	0.02	149.70	5,999.2	-3.5	52.2	391,363.88	783,890.83	32° 4' 21.577 N	103° 25' 0.604 W
6,100.0	0.03	185.87	6,099.2	-3.6	52.2	391,363.83	783,890.84	32° 4' 21.577 N	103° 25' 0.604 W
6,200.0	0.03	96.59	6,199.2	-3.6	52.3	391,363.81	783,890.86	32° 4' 21.576 N	103° 25' 0.604 W
6,300.0	0.07	212.63	6,299.2	-3.6	52.3	391,363.75	783,890.85	32° 4' 21.576 N	103° 25' 0.604 W
6,400.0	0.04	199.03	6,399.2	-3.7	52.2	391,363.67	783,890.81	32° 4' 21.575 N	103° 25' 0.604 W



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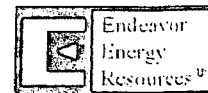
Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,500.0	0.04	233.30	6,499.2	-3.8	52.2	391,363.61	783,890.77	32° 4' 21.575 N	103° 25' 0.605 W
6,600.0	0.03	99.77	6,599.2	-3.8	52.2	391,363.59	783,890.77	32° 4' 21.574 N	103° 25' 0.605 W
6,700.0	0.03	95.13	6,699.2	-3.8	52.2	391,363.58	783,890.82	32° 4' 21.574 N	103° 25' 0.604 W
6,800.0	0.05	170.74	6,799.2	-3.9	52.3	391,363.54	783,890.85	32° 4' 21.574 N	103° 25' 0.604 W
6,900.0	0.11	121.79	6,899.2	-4.0	52.3	391,363.44	783,890.94	32° 4' 21.573 N	103° 25' 0.603 W
7,000.0	0.21	32.81	6,999.2	-3.9	52.5	391,363.55	783,891.12	32° 4' 21.574 N	103° 25' 0.601 W
7,100.0	0.11	272.87	7,099.2	-3.7	52.5	391,363.70	783,891.13	32° 4' 21.575 N	103° 25' 0.601 W
7,200.0	0.05	208.68	7,199.2	-3.7	52.4	391,363.67	783,891.01	32° 4' 21.575 N	103° 25' 0.602 W
7,300.0	0.03	114.71	7,299.2	-3.8	52.4	391,363.62	783,891.01	32° 4' 21.575 N	103° 25' 0.602 W
7,400.0	0.04	207.11	7,399.2	-3.8	52.4	391,363.58	783,891.02	32° 4' 21.574 N	103° 25' 0.602 W
7,500.0	0.04	134.51	7,499.2	-3.9	52.4	391,363.52	783,891.03	32° 4' 21.574 N	103° 25' 0.602 W
7,600.0	0.04	145.18	7,599.2	-3.9	52.5	391,363.47	783,891.07	32° 4' 21.573 N	103° 25' 0.601 W
7,700.0	0.07	167.97	7,699.2	-4.0	52.5	391,363.38	783,891.11	32° 4' 21.572 N	103° 25' 0.601 W
7,800.0	0.07	243.08	7,799.2	-4.1	52.5	391,363.29	783,891.06	32° 4' 21.571 N	103° 25' 0.601 W
7,900.0	0.12	247.82	7,899.2	-4.2	52.3	391,363.23	783,890.91	32° 4' 21.571 N	103° 25' 0.603 W
8,000.0	0.07	14.45	7,999.2	-4.2	52.2	391,363.25	783,890.83	32° 4' 21.571 N	103° 25' 0.604 W
8,100.0	0.21	48.70	8,099.2	-4.0	52.4	391,363.43	783,890.98	32° 4' 21.573 N	103° 25' 0.602 W
8,200.0	0.25	99.29	8,199.2	-3.9	52.7	391,363.51	783,891.34	32° 4' 21.573 N	103° 25' 0.598 W
8,300.0	0.43	146.78	8,299.2	-4.2	53.2	391,363.16	783,891.76	32° 4' 21.570 N	103° 25' 0.593 W
8,400.0	0.62	158.28	8,399.2	-5.1	53.6	391,362.35	783,892.16	32° 4' 21.562 N	103° 25' 0.589 W
8,500.0	0.62	168.42	8,499.2	-6.1	53.9	391,361.31	783,892.47	32° 4' 21.552 N	103° 25' 0.585 W
8,555.0	2.54	356.19	8,554.2	-5.2	53.9	391,362.24	783,892.45	32° 4' 21.561 N	103° 25' 0.585 W
First MWD Survey									
8,603.0	5.30	355.40	8,602.1	-1.9	53.6	391,365.51	783,892.20	32° 4' 21.593 N	103° 25' 0.588 W
8,635.0	6.40	352.60	8,633.9	1.4	53.3	391,368.76	783,891.85	32° 4' 21.625 N	103° 25' 0.592 W
8,666.0	8.80	348.80	8,664.7	5.4	52.6	391,372.80	783,891.17	32° 4' 21.665 N	103° 25' 0.599 W
8,698.0	11.60	346.20	8,696.2	10.9	51.3	391,378.32	783,889.93	32° 4' 21.720 N	103° 25' 0.613 W
8,730.0	15.10	343.80	8,727.3	18.1	49.4	391,385.45	783,888.00	32° 4' 21.791 N	103° 25' 0.635 W
8,762.0	18.20	341.70	8,757.9	26.8	46.7	391,394.20	783,885.26	32° 4' 21.878 N	103° 25' 0.666 W
8,793.0	21.20	344.20	8,787.1	36.8	43.6	391,404.19	783,882.22	32° 4' 21.977 N	103° 25' 0.700 W
8,825.0	24.10	348.40	8,816.7	48.8	40.7	391,416.16	783,879.33	32° 4' 22.095 N	103° 25' 0.732 W
8,857.0	24.50	351.70	8,845.8	61.7	38.5	391,429.13	783,877.06	32° 4' 22.224 N	103° 25' 0.758 W
8,889.0	24.00	352.70	8,875.0	74.8	36.7	391,442.15	783,875.27	32° 4' 22.353 N	103° 25' 0.777 W
8,921.0	23.50	351.90	8,904.3	87.5	34.9	391,454.92	783,873.55	32° 4' 22.479 N	103° 25' 0.796 W
8,952.0	24.20	352.80	8,932.6	99.9	33.3	391,467.35	783,871.88	32° 4' 22.603 N	103° 25' 0.814 W
8,984.0	26.40	356.00	8,961.6	113.6	32.0	391,480.95	783,870.56	32° 4' 22.737 N	103° 25' 0.828 W
9,015.0	28.40	358.40	8,989.1	127.8	31.3	391,495.20	783,869.87	32° 4' 22.878 N	103° 25' 0.835 W
9,047.0	30.20	357.80	9,017.0	143.4	30.8	391,510.85	783,869.35	32° 4' 23.033 N	103° 25' 0.839 W
9,078.0	31.50	357.00	9,043.6	159.3	30.0	391,526.73	783,868.63	32° 4' 23.190 N	103° 25' 0.846 W
9,110.0	33.90	357.60	9,070.5	176.6	29.2	391,544.00	783,867.82	32° 4' 23.361 N	103° 25' 0.854 W
9,142.0	36.80	356.30	9,096.6	195.1	28.2	391,562.48	783,866.82	32° 4' 23.544 N	103° 25' 0.863 W
9,174.0	39.60	354.40	9,121.8	214.8	26.6	391,582.20	783,865.21	32° 4' 23.740 N	103° 25' 0.880 W
9,206.0	42.90	353.30	9,145.8	235.8	24.3	391,603.17	783,862.94	32° 4' 23.947 N	103° 25' 0.904 W
9,237.0	45.40	352.00	9,168.1	257.2	21.6	391,624.58	783,860.18	32° 4' 24.159 N	103° 25' 0.934 W
9,269.0	47.30	352.00	9,190.2	280.1	18.4	391,647.51	783,856.95	32° 4' 24.387 N	103° 25' 0.970 W
9,301.0	48.70	352.30	9,211.6	303.7	15.1	391,671.07	783,853.71	32° 4' 24.620 N	103° 25' 1.005 W
9,332.0	50.70	352.80	9,231.6	327.1	12.0	391,694.51	783,850.64	32° 4' 24.852 N	103° 25' 1.038 W
9,364.0	53.10	353.80	9,251.4	352.1	9.1	391,719.52	783,847.71	32° 4' 25.100 N	103° 25' 1.070 W
9,395.0	55.60	353.50	9,269.4	377.2	6.3	391,744.55	783,844.92	32° 4' 25.348 N	103° 25' 1.100 W
9,427.0	58.40	353.50	9,286.9	403.8	3.3	391,771.22	783,841.88	32° 4' 25.612 N	103° 25' 1.133 W
9,459.0	61.00	352.60	9,303.0	431.2	-0.1	391,798.64	783,838.54	32° 4' 25.884 N	103° 25' 1.169 W
9,490.0	64.00	352.50	9,317.3	458.5	-3.6	391,825.90	783,834.97	32° 4' 26.154 N	103° 25' 1.207 W
9,522.0	67.10	353.20	9,330.6	487.4	-7.2	391,854.80	783,831.35	32° 4' 26.440 N	103° 25' 1.247 W
9,554.0	70.20	354.70	9,342.2	517.0	-10.4	391,884.43	783,828.21	32° 4' 26.733 N	103° 25' 1.280 W
9,585.0	72.90	356.20	9,352.0	546.3	-12.7	391,913.74	783,825.88	32° 4' 27.024 N	103° 25' 1.304 W



Intrepid-DDS

Survey Report - Geographic



Company: Endeavor Energy Resource
Project: Lea County, NM
Site: Sec 35-2, T26S, R33E
Well: Battle Axe Fed #2H
Wellbore: Original Wellbore
Design: Original Wellbore

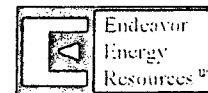
Local Co-ordinate Reference: Site Sec 35-2, T26S, R33E
TVD Reference: WELL @ 3348.0usft (Original Well Elev)
MD Reference: WELL @ 3348.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,617.0	76.80	356.30	9,360.4	577.2	-14.7	391,944.56	783,823.86	32° 4' 27.329 N	103° 25' 1.325 W
9,649.0	81.10	356.60	9,366.5	608.5	-16.7	391,975.90	783,821.92	32° 4' 27.639 N	103° 25' 1.344 W
9,680.0	85.10	358.10	9,370.2	639.2	-18.1	392,006.63	783,820.50	32° 4' 27.943 N	103° 25' 1.358 W
9,711.0	88.10	359.20	9,372.1	670.2	-18.8	392,037.57	783,819.77	32° 4' 28.249 N	103° 25' 1.363 W
9,743.0	88.70	0.00	9,373.0	702.2	-19.0	392,069.55	783,819.55	32° 4' 28.566 N	103° 25' 1.363 W
9,838.0	89.60	0.70	9,374.4	797.1	-18.5	392,164.54	783,820.13	32° 4' 29.506 N	103° 25' 1.347 W
9,933.0	88.80	0.80	9,375.7	892.1	-17.2	392,259.52	783,821.37	32° 4' 30.446 N	103° 25' 1.323 W
10,028.0	89.80	1.40	9,376.9	987.1	-15.4	392,354.50	783,823.20	32° 4' 31.385 N	103° 25' 1.292 W
10,122.0	92.00	2.00	9,375.4	1,081.0	-12.6	392,448.44	783,825.98	32° 4' 32.315 N	103° 25' 1.251 W
10,218.0	91.50	2.80	9,372.5	1,176.9	-8.6	392,544.31	783,830.00	32° 4' 33.263 N	103° 25' 1.194 W
10,312.0	91.10	3.30	9,370.3	1,270.8	-3.6	392,638.15	783,835.00	32° 4' 34.191 N	103° 25' 1.127 W
10,407.0	90.90	0.90	9,368.7	1,365.7	-0.1	392,733.06	783,838.48	32° 4' 35.130 N	103° 25' 1.077 W
10,502.0	91.30	1.40	9,366.8	1,460.6	1.8	392,828.03	783,840.39	32° 4' 36.070 N	103° 25' 1.046 W
10,597.0	89.70	0.40	9,366.0	1,555.6	3.3	392,923.01	783,841.88	32° 4' 37.009 N	103° 25' 1.019 W
10,693.0	89.50	0.20	9,366.7	1,651.6	3.8	393,019.00	783,842.38	32° 4' 37.959 N	103° 25' 1.004 W
10,788.0	90.10	0.00	9,367.0	1,746.6	4.0	393,114.00	783,842.55	32° 4' 38.899 N	103° 25' 0.992 W
10,884.0	88.70	359.80	9,368.0	1,842.6	3.8	393,209.99	783,842.38	32° 4' 39.849 N	103° 25' 0.985 W
10,979.0	90.20	0.40	9,368.9	1,937.6	3.9	393,304.99	783,842.55	32° 4' 40.789 N	103° 25' 0.973 W
11,074.0	92.60	2.00	9,366.6	2,032.5	5.9	393,399.93	783,844.54	32° 4' 41.728 N	103° 25' 0.941 W
11,169.0	92.70	2.40	9,362.2	2,127.4	9.6	393,494.76	783,848.18	32° 4' 42.666 N	103° 25' 0.889 W
11,264.0	92.70	3.50	9,357.7	2,222.1	14.5	393,589.52	783,853.06	32° 4' 43.604 N	103° 25' 0.823 W
11,359.0	92.10	1.70	9,353.8	2,316.9	18.8	393,684.34	783,857.37	32° 4' 44.542 N	103° 25' 0.764 W
11,453.0	91.50	0.10	9,350.8	2,410.9	20.2	393,778.28	783,858.84	32° 4' 45.471 N	103° 25' 0.737 W
11,549.0	89.80	357.50	9,349.7	2,506.8	18.2	393,874.24	783,856.83	32° 4' 46.421 N	103° 25' 0.751 W
11,644.0	89.00	0.10	9,350.7	2,601.8	16.2	393,969.20	783,854.84	32° 4' 47.361 N	103° 25' 0.765 W
11,739.0	88.90	0.40	9,352.5	2,696.8	16.7	394,064.19	783,855.26	32° 4' 48.301 N	103° 25' 0.751 W
11,835.0	87.80	359.20	9,355.2	2,792.7	16.3	394,160.14	783,854.92	32° 4' 49.250 N	103° 25' 0.745 W
11,929.0	88.80	359.60	9,358.0	2,886.7	15.3	394,254.09	783,853.94	32° 4' 50.180 N	103° 25' 0.747 W
12,025.0	90.00	359.20	9,359.0	2,982.7	14.3	394,350.08	783,852.93	32° 4' 51.130 N	103° 25' 0.750 W
12,120.0	92.20	359.00	9,357.2	3,077.6	12.8	394,445.05	783,851.44	32° 4' 52.070 N	103° 25' 0.758 W
12,216.0	91.40	358.30	9,354.2	3,173.6	10.6	394,540.97	783,849.18	32° 4' 53.019 N	103° 25' 0.774 W
12,311.0	92.10	359.10	9,351.3	3,268.5	8.4	394,635.90	783,847.03	32° 4' 53.959 N	103° 25' 0.790 W
12,407.0	90.40	358.80	9,349.2	3,364.5	6.7	394,731.86	783,845.27	32° 4' 54.908 N	103° 25' 0.801 W
12,502.0	90.60	357.30	9,348.4	3,459.4	3.4	394,826.80	783,842.04	32° 4' 55.848 N	103° 25' 0.829 W
12,598.0	92.10	358.10	9,346.1	3,555.3	-0.4	394,922.69	783,838.18	32° 4' 56.797 N	103° 25' 0.864 W
12,693.0	91.60	358.90	9,343.0	3,650.2	-2.9	395,017.61	783,835.70	32° 4' 57.737 N	103° 25' 0.884 W
12,789.0	91.60	359.40	9,340.3	3,746.2	-4.3	395,113.56	783,834.27	32° 4' 58.686 N	103° 25' 0.891 W
12,884.0	91.10	0.00	9,338.1	3,841.1	-4.8	395,208.53	783,833.78	32° 4' 59.626 N	103° 25' 0.887 W
12,979.0	89.50	0.70	9,337.6	3,936.1	-4.2	395,303.52	783,834.36	32° 5' 0.566 N	103° 25' 0.871 W
13,074.0	90.50	0.70	9,337.6	4,031.1	-3.1	395,398.51	783,835.52	32° 5' 1.506 N	103° 25' 0.848 W
13,169.0	90.70	1.40	9,336.6	4,126.1	-1.3	395,493.49	783,837.26	32° 5' 2.446 N	103° 25' 0.819 W
13,263.0	88.20	0.50	9,337.5	4,220.1	0.2	395,587.47	783,838.82	32° 5' 3.375 N	103° 25' 0.791 W
13,358.0	90.50	0.70	9,338.6	4,315.1	1.2	395,682.45	783,839.81	32° 5' 4.315 N	103° 25' 0.771 W
13,453.0	90.00	0.70	9,338.2	4,410.0	2.4	395,777.44	783,840.97	32° 5' 5.255 N	103° 25' 0.748 W
13,548.0	88.40	0.10	9,339.5	4,505.0	3.0	395,872.43	783,841.64	32° 5' 6.195 N	103° 25' 0.731 W
13,644.0	91.40	0.20	9,339.7	4,601.0	3.3	395,968.41	783,841.89	32° 5' 7.145 N	103° 25' 0.718 W
13,739.0	91.60	359.80	9,337.2	4,696.0	3.3	396,063.38	783,841.89	32° 5' 8.084 N	103° 25' 0.709 W
13,834.0	93.50	0.00	9,333.0	4,790.9	3.1	396,158.28	783,841.72	32° 5' 9.024 N	103° 25' 0.701 W
13,929.0	93.10	1.40	9,327.5	4,885.7	4.3	396,253.12	783,842.88	32° 5' 9.962 N	103° 25' 0.678 W
14,024.0	91.50	0.70	9,323.7	4,980.6	6.0	396,348.02	783,844.62	32° 5' 10.901 N	103° 25' 0.649 W
14,120.0	89.50	0.70	9,322.8	5,076.6	7.2	396,444.00	783,845.79	32° 5' 11.850 N	103° 25' 0.626 W
14,214.0	90.40	1.00	9,322.9	5,170.6	8.6	396,537.99	783,847.19	32° 5' 12.780 N	103° 25' 0.600 W
14,309.0	89.80	1.00	9,322.8	5,265.6	10.2	396,632.98	783,848.84	32° 5' 13.720 N	103° 25' 0.572 W
14,405.0	91.10	1.40	9,322.0	5,361.6	12.3	396,728.95	783,850.85	32° 5' 14.670 N	103° 25' 0.539 W
14,500.0	90.30	0.30	9,320.8	5,456.5	13.7	396,823.93	783,852.26	32° 5' 15.609 N	103° 25' 0.513 W



Intrepid-DDS
Survey Report - Geographic



Company: Endeavor Energy Resource
Project: Lea County, NM
Site: Sec 35-2, T26S, R33E
Well: Battle Axe Fed #2H
Wellbore: Original Wellbore
Design: Original Wellbore

Local Co-ordinate Reference: Site Sec 35-2, T26S, R33E
TVD Reference: WELL @ 3348.0usft (Original Well Elev)
MD Reference: WELL @ 3348.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,596.0	88.70	0.40	9,321.7	5,552.5	14.3	396,919.92	783,852.85	32° 5' 16.559 N	103° 25' 0.497 W
14,690.0	89.10	0.20	9,323.5	5,646.5	14.7	397,013.90	783,853.34	32° 5' 17.489 N	103° 25' 0.482 W
14,785.0	90.30	0.10	9,324.0	5,741.5	15.0	397,108.90	783,853.59	32° 5' 18.429 N	103° 25' 0.469 W
14,879.0	91.90	0.40	9,322.2	5,835.5	15.4	397,202.88	783,854.00	32° 5' 19.359 N	103° 25' 0.455 W
14,975.0	89.60	0.30	9,320.9	5,931.5	16.0	397,298.86	783,854.59	32° 5' 20.309 N	103° 25' 0.439 W
15,070.0	90.50	0.10	9,320.8	6,026.5	16.3	397,393.86	783,854.92	32° 5' 21.249 N	103° 25' 0.426 W
15,166.0	88.10	359.30	9,322.0	6,122.4	15.8	397,489.84	783,854.42	32° 5' 22.199 N	103° 25' 0.422 W
15,260.0	87.90	358.60	9,325.3	6,216.4	14.1	397,583.77	783,852.70	32° 5' 23.128 N	103° 25' 0.433 W
15,355.0	87.70	358.20	9,328.9	6,311.3	11.4	397,678.66	783,850.04	32° 5' 24.067 N	103° 25' 0.454 W
15,451.0	88.00	358.40	9,332.5	6,407.2	8.6	397,774.55	783,847.20	32° 5' 25.017 N	103° 25' 0.478 W
15,546.0	88.40	358.60	9,335.5	6,502.1	6.1	397,869.47	783,844.71	32° 5' 25.956 N	103° 25' 0.498 W
15,642.0	89.80	359.20	9,337.0	6,598.0	4.3	397,965.44	783,842.87	32° 5' 26.906 N	103° 25' 0.509 W
15,737.0	89.90	358.80	9,337.3	6,693.0	2.6	398,060.43	783,841.21	32° 5' 27.846 N	103° 25' 0.519 W
15,832.0	90.30	359.20	9,337.1	6,788.0	1.0	398,155.41	783,839.55	32° 5' 28.786 N	103° 25' 0.529 W
15,928.0	90.90	359.50	9,336.1	6,884.0	-0.1	398,251.40	783,838.47	32° 5' 29.736 N	103° 25' 0.532 W
16,023.0	91.50	359.20	9,334.1	6,979.0	-1.2	398,346.37	783,837.39	32° 5' 30.676 N	103° 25' 0.536 W
16,118.0	92.60	359.60	9,330.7	7,073.9	-2.2	398,441.30	783,836.39	32° 5' 31.615 N	103° 25' 0.538 W
16,177.0	93.10	359.80	9,327.8	7,132.8	-2.5	398,500.23	783,836.09	32° 5' 32.198 N	103° 25' 0.536 W
Last MWD Survey									
16,233.0	93.10	359.80	9,324.8	7,188.7	-2.7	398,556.15	783,835.89	32° 5' 32.752 N	103° 25' 0.532 W
PTB - TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.0	100.0	0.3	0.0	First Gyro Survey
8,555.0	8,554.2	-5.2	53.9	First MWD Survey
16,177.0	9,327.8	7,132.8	-2.5	Last MWD Survey
16,233.0	9,324.8	7,188.7	-2.7	PTB - TD

Checked By: _____ Approved By: _____ Date: _____