

AS-DRILLED

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2013

Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31174	² Pool Code 72319/71599	³ Pool Name BLANCO MESAVERDE/BASIN DAKOTA
⁴ Property Code 306750	⁵ Property Name JICARILLA A	⁶ Well Number 7M
⁷ OGRID No. 143199	⁸ Operator Name ENERVEST OPERATING, LLC.	⁹ Elevation 6676'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	26-N	5-W		1268'	SOUTH	1658'	WEST	RIO ARriba

¹¹Bottom Hole Location If Different From Surface

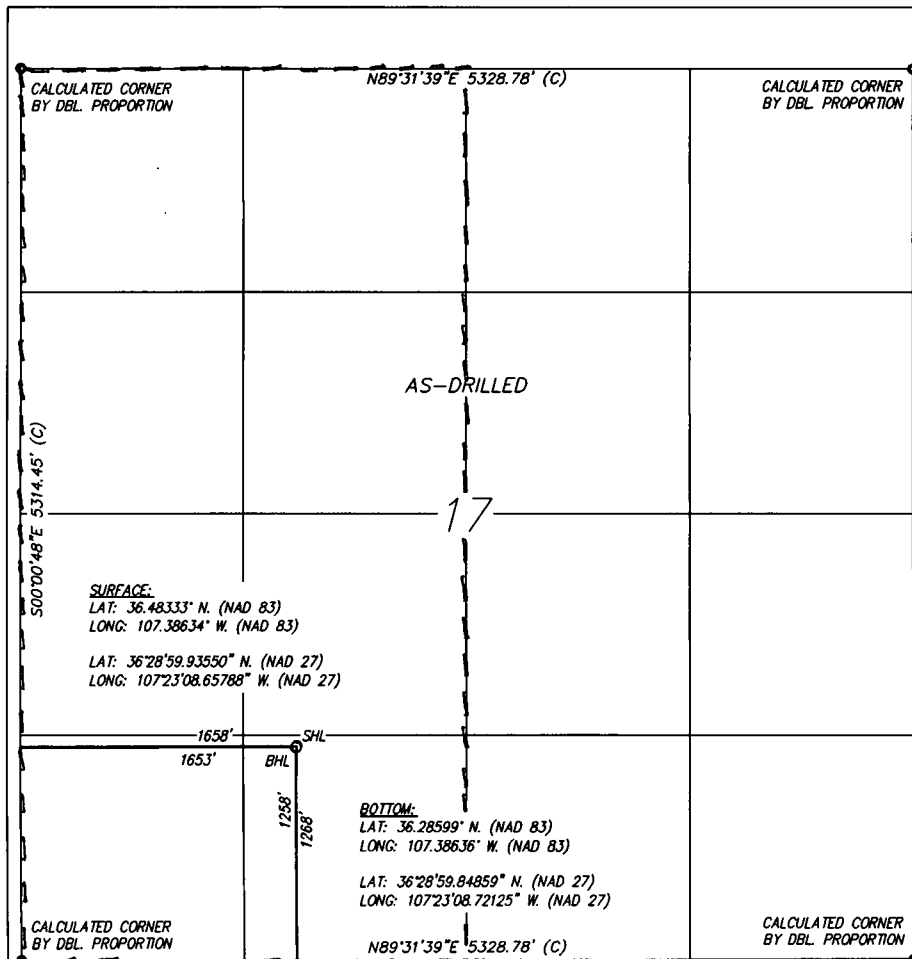
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	26-N	5-W		1258'	SOUTH	1653'	WEST	RIO ARriba

¹² Dedicated Acres MV - W/320 DK - W/320	¹³ Joint of Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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RCVD SEP 11 12
OIL CON. DIV.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

DIST. 3



¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

BDS 9/10/13
Signature Date

BART TREVINO
Printed Name

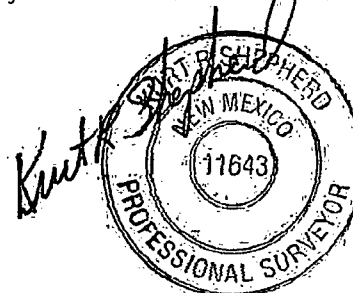
BTREVINO@ENERVEST.NET
E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Survey Date: AUGUST 19, 2013

Signature and Seal of Professional Surveyor



Certificate Number 11643

AV

D & J DRILLING, LLC
P. O. BOX 49
FARMINGTON, NM 87499

RECEIVED
AUG 19 2013
ENERVEST

DATE: 05/06/13

TO: ENERVEST OPERATING L.L.C.
2700 FARMINGTON AVENUE, BLK K, STE 1
FARMINGTON, NM 87401

ATTN: DRILLING A/P

THIS LETTER IS TO CERTIFY THAT D & J DRILLING, DID RUN DEVIATION SURVEYS AT
THE LISTED DEPTH ON YOUR JICARILLA A #7M, IN SEC17-T26N-R05W, IN RIO ARRIBA
COUNTY, NEW MEXICO. API WELL NUMBER - 30-039-31174

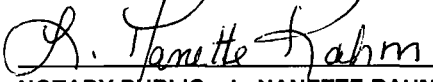
DEPTH
210'

DEGREE DEVIATION
1/2

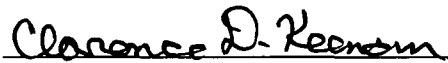
RCVD SEP 11 '13
OIL CONS. DIV.
DIST. 3

TO THE BEST OF MY KNOWLEDGE, I SWEAR THIS INFORMATION TO BE TRUE.

STATE OF NEW MEXICO
COUNTY OF SAN JUAN


NOTARY PUBLIC, L. NANETTE RAHM

SINCERELY,


OWNER- CLARENCE D. KEENOM





Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

RCVD SEP 11 '13
OIL CONS. DIV.
DIST. 3

RE: _____	Enervest	Operator
_____	Jicarilla A #7M	Well Name & No.
_____	Rio Arriba County, NM	County & State
_____	330513DEF11080	SDI Job No.

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 554 feet to a measured depth of 7740 feet is true and correct as determined from all available records.

Janie Collins
Signature

Colorado District Well Planner
Title

Scientific Drilling International
Company

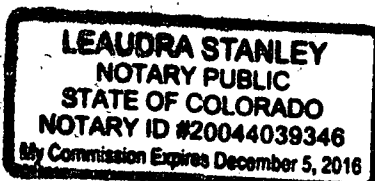
State of : Colorado }
County of : Mesa } ss

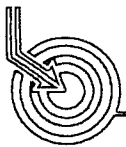
On this 31st day of May, 2013, before me personally appeared Janie Collins to me known as the person described in and who executed the foregoing instrument and acknowledged that (s)he executed the same as his/her free act and deed.

Seal

Leaudra Stanley
Notary Public

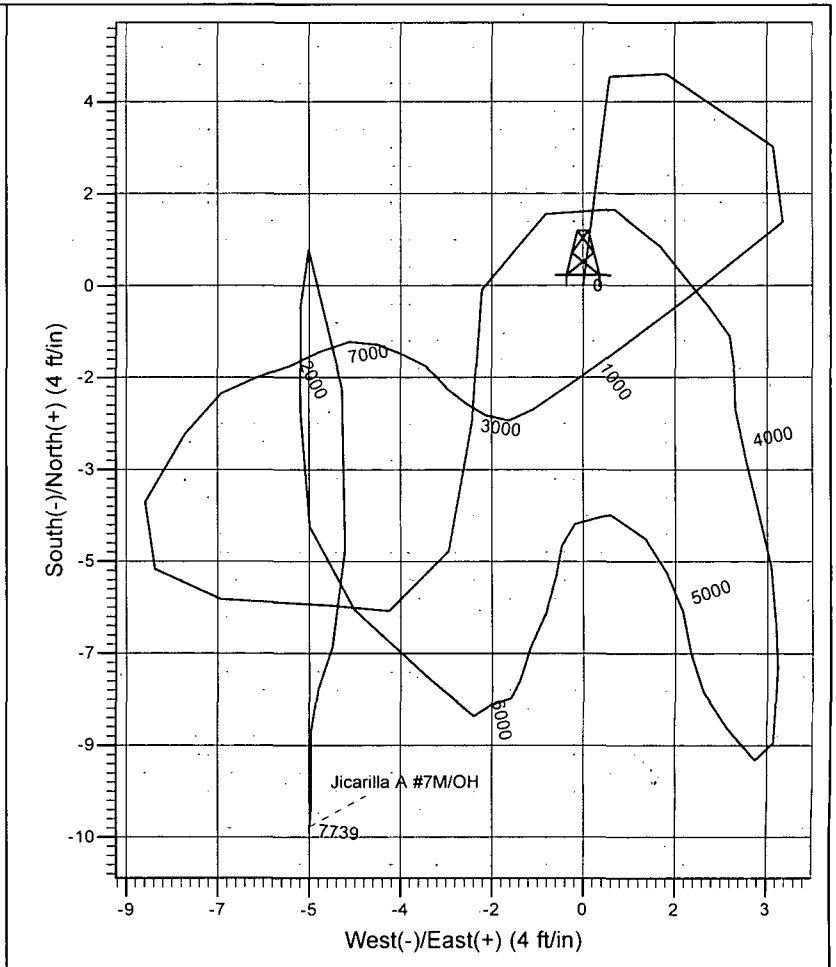
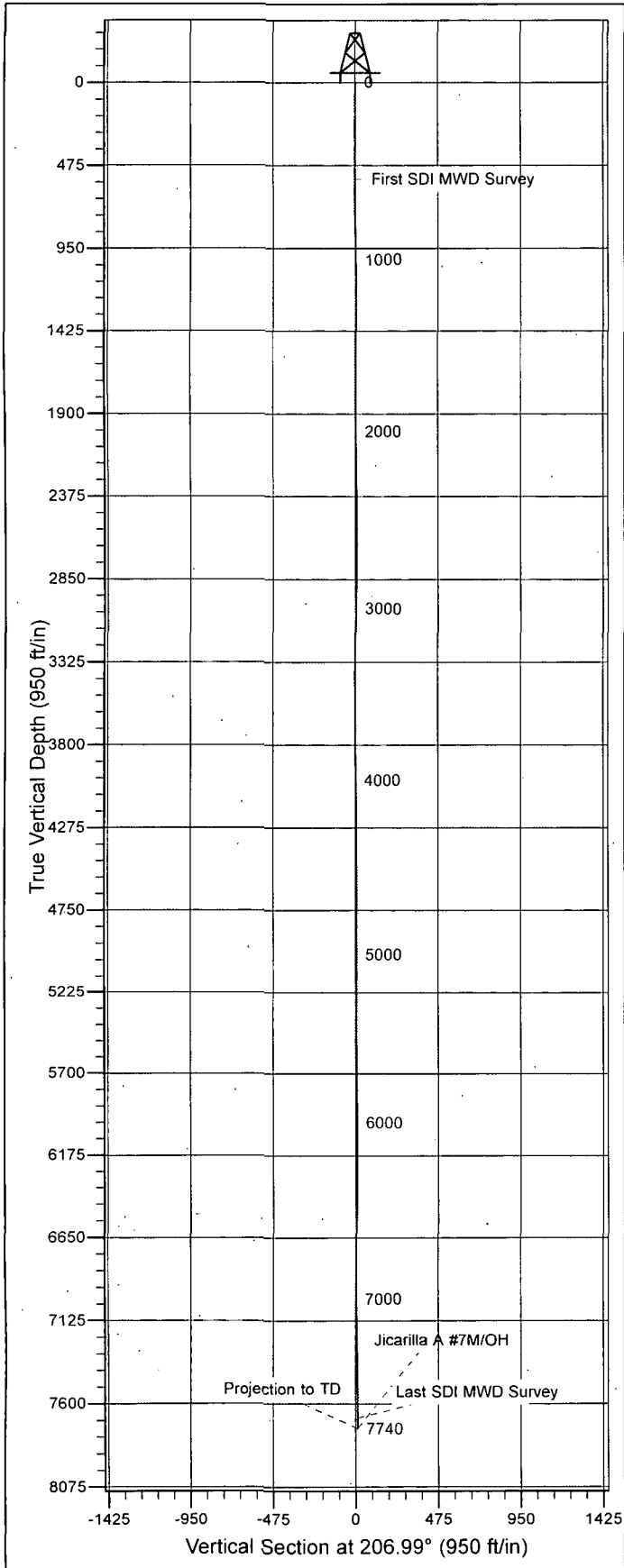
10/15/16
My Commission Expires





Scientific Drilling

Company: EnerVest Operating LLC
Project: Rio Arriba County, NM (NAD83)
Site: Jicarilla
Well: Jicarilla A #7M
Wellbore: OH
Design: OH



Well Details: Jicarilla A #7M

TVD Reference: WELL @ 0.00ft (Original Well Elev) Ground Level: 6610.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 -274017644.34 372015898.75 82° 23' 12.207 S 36° 38' 16.552 E

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Jicarilla A #7M, True North
Vertical (TVD) Reference: WELL @ 0.00ft (Original Well Elev)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: WELL @ 0.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

PROJECT DETAILS: Rio Arriba County, NM (NAD83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

System Datum: Mean Sea Level

Plan: OH

12:10, May 31 2013
Created By: Janie Collins

EnerVest Operating LLC

Rio Arriba County, NM (NAD83)

Jicarilla

Jicarilla A #7M

OH

Design: OH

Standard Survey Report

31 May, 2013



Scientific Drilling

Survey Report



Company:	EnerVest Operating LLC	Local Co-ordinate Reference:	Well Jicarilla A #7M
Project:	Rio Arriba County, NM (NAD83)	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jicarilla	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Jicarilla A #7M	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	Rio Arriba County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Jicarilla
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Site Position:		Northing:	-274,017,644.35 usft	Latitude:	7° 5' 24.101 S
From:	Lat/Long	Easting:	372,015,898.75 usft	Longitude:	42° 3' 21.841 E
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.00 °

Well		Jicarilla A #7M				
Well Position	+N/-S	0.00 ft	Northing:	-274,017,644.35 usft	Latitude:	82° 23' 12.207 S
	+E/-W	0.00 ft	Easting:	372,015,898.75 usft	Longitude:	36° 38' 16.552 E
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,610.00 ft	

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/31/2013	-49.78	-67.08	48,451

Design	OH
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	206.99

Survey Program		Date	5/31/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
554.00	7,740.00	Survey #1 - MWD Surveys (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
554.00	0.83	7.41	553.98	3.98	0.52	-3.78	0.15	0.15	0.00
First SDI MWD Survey									
646.00	1.45	121.67	645.97	4.03	1.59	-4.31	2.11	0.67	124.20
738.00	1.61	126.64	737.94	2.65	3.62	-4.00	0.23	0.17	5.40
828.00	1.38	230.87	827.92	1.21	3.80	-2.80	2.63	-0.26	115.81
924.00	1.33	232.27	923.89	-0.20	2.02	-0.73	0.06	-0.05	1.46
1,018.00	1.75	233.86	1,017.86	-1.72	0.00	1.53	0.45	0.45	1.69
1,113.00	0.29	270.90	1,112.84	-2.57	-1.42	2.93	1.61	-1.54	38.99
1,207.00	0.28	294.46	1,206.84	-2.47	-1.86	3.05	0.12	-0.01	25.06
1,302.00	0.26	307.66	1,301.84	-2.24	-2.24	3.02	0.07	-0.02	13.89

Survey Report



Company:	EnerVest Operating LLC	Local Co-ordinate Reference:	Well Jicarilla A #7M
Project:	Rio Arriba County, NM (NAD83)	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jicarilla	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Jicarilla A #7M	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,395.00	0.27	307.57	1,394.84	-1.98	-2.59	2.94	0.01	0.01	-0.10
1,490.00	0.13	342.20	1,489.84	-1.74	-2.80	2.82	0.19	-0.15	36.45
1,586.00	0.27	297.96	1,585.84	-1.53	-3.03	2.74	0.21	0.15	-46.08
1,681.00	0.32	294.79	1,680.84	-1.32	-3.47	2.75	0.06	0.05	-3.34
1,776.00	0.30	289.30	1,775.83	-1.12	-3.94	2.79	0.04	-0.02	-5.78
1,870.00	0.38	264.70	1,869.83	-1.07	-4.49	2.99	0.18	0.09	-26.17
1,964.00	0.36	237.92	1,963.83	-1.25	-5.05	3.41	0.18	-0.02	-28.49
2,059.00	0.40	249.61	2,058.83	-1.53	-5.61	3.91	0.09	0.04	12.31
2,153.00	0.48	251.13	2,152.83	-1.77	-6.29	4.43	0.09	0.09	1.62
2,248.00	0.37	238.75	2,247.82	-2.06	-6.93	4.98	0.15	-0.12	-13.03
2,341.00	0.92	215.64	2,340.82	-2.82	-7.62	5.97	0.64	0.59	-24.85
2,437.00	0.88	205.40	2,436.81	-4.11	-8.39	7.47	0.17	-0.04	-10.67
2,531.00	0.97	141.99	2,530.80	-5.39	-8.21	8.53	1.04	0.10	-67.46
2,626.00	0.93	85.68	2,625.78	-5.97	-6.94	8.47	0.94	-0.04	-59.27
2,749.00	1.01	99.96	2,748.77	-6.08	-4.88	7.63	0.21	0.07	11.61
2,813.00	1.07	90.89	2,812.76	-6.19	-3.73	7.20	0.27	0.09	-14.17
2,906.00	1.46	13.72	2,905.74	-5.05	-2.58	5.67	1.73	0.42	-82.98
3,001.00	1.59	7.35	3,000.71	-2.57	-2.12	3.25	0.22	0.14	-6.71
3,095.00	1.45	0.52	3,094.67	-0.08	-1.94	0.96	0.24	-0.15	-7.27
3,189.00	1.51	78.27	3,188.65	1.36	-0.72	-0.88	1.98	0.06	82.71
3,284.00	0.23	150.32	3,283.64	1.45	0.60	-1.56	1.53	-1.35	75.84
3,378.00	0.36	116.59	3,377.64	1.15	0.96	-1.46	0.23	0.14	-35.88
3,473.00	0.44	138.10	3,472.63	0.74	1.47	-1.33	0.18	0.08	22.64
3,566.00	0.48	144.35	3,565.63	0.16	1.93	-1.02	0.07	0.04	6.72
3,659.00	0.41	136.84	3,658.63	-0.40	2.39	-0.73	0.10	-0.08	-8.08
3,754.00	0.43	152.91	3,753.63	-0.96	2.78	-0.41	0.13	0.02	16.92
3,849.00	0.42	192.28	3,848.62	-1.62	2.87	0.14	0.30	-0.01	41.44
3,942.00	0.52	166.44	3,941.62	-2.36	2.90	0.79	0.25	0.11	-27.78
4,036.00	0.69	169.75	4,035.61	-3.33	3.10	1.56	0.18	0.18	3.52
4,131.00	0.58	162.33	4,130.61	-4.36	3.35	2.36	0.14	-0.12	-7.81
4,225.00	0.67	171.58	4,224.60	-5.35	3.57	3.15	0.14	0.10	9.84
4,320.00	0.74	178.29	4,319.60	-6.52	3.67	4.14	0.11	0.07	7.06
4,383.00	0.61	177.29	4,382.59	-7.26	3.70	4.79	0.21	-0.21	-1.59
4,507.00	0.73	187.96	4,506.58	-8.70	3.62	6.11	0.14	0.10	8.60
4,602.00	0.45	315.15	4,601.58	-9.03	3.27	6.56	1.12	-0.29	133.88
4,696.00	0.52	322.34	4,695.58	-8.43	2.75	6.27	0.10	0.07	7.65
4,790.00	0.51	330.70	4,789.57	-7.73	2.29	5.85	0.08	-0.01	8.89
4,883.00	0.47	354.63	4,882.57	-6.99	2.05	5.30	0.22	-0.04	25.73
4,977.00	0.53	344.04	4,976.57	-6.19	1.89	4.66	0.12	0.06	-11.27
5,070.00	0.45	329.12	5,069.56	-5.46	1.59	4.15	0.16	-0.09	-16.04
5,164.00	0.48	326.75	5,163.56	-4.82	1.18	3.75	0.04	0.03	-2.52
5,287.00	0.36	275.00	5,286.56	-4.35	0.52	3.64	0.31	-0.10	-42.07
5,414.00	0.32	231.67	5,413.56	-4.54	-0.16	4.12	0.20	-0.03	-34.12

Survey Report



Company:	EnerVest Operating LLC	Local Co-ordinate Reference:	Well Jicarilla A #7M
Project:	Rio Arriba County, NM (NAD83)	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jicarilla	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Jicarilla A #7M	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,508.00	0.31	189.98	5,507.55	-4.95	-0.41	4.60	0.24	-0.01	-44.35	
5,602.00	0.39	191.02	5,601.55	-5.51	-0.52	5.15	0.09	-0.09	1.11	
5,696.00	0.51	198.81	5,695.55	-6.22	-0.71	5.87	0.14	0.13	8.29	
5,789.00	0.40	212.45	5,788.55	-6.89	-1.02	6.60	0.17	-0.12	14.67	
5,884.00	0.41	183.38	5,883.54	-7.51	-1.22	7.24	0.21	0.01	-30.60	
5,977.00	0.19	266.06	5,976.54	-7.85	-1.39	7.63	0.46	-0.24	88.90	
6,072.00	0.31	241.76	6,071.54	-7.98	-1.77	7.92	0.17	0.13	-25.58	
6,165.00	0.17	228.94	6,164.54	-8.19	-2.10	8.25	0.16	-0.15	-13.78	
6,259.00	1.30	317.44	6,258.53	-7.50	-2.93	8.01	1.39	1.20	94.15	
6,353.00	1.13	306.84	6,352.51	-6.16	-4.39	7.48	0.30	-0.18	-11.28	
6,443.00	1.34	352.55	6,442.49	-4.58	-5.24	6.46	1.09	0.23	50.79	
6,537.00	1.34	358.19	6,536.47	-2.39	-5.41	4.59	0.14	0.00	6.00	
6,631.00	1.09	1.76	6,630.45	-0.40	-5.42	2.82	0.28	-0.27	3.80	
6,756.00	0.15	130.41	6,755.44	0.68	-5.26	1.78	0.95	-0.75	102.92	
7,040.00	0.98	171.56	7,039.42	-1.96	-4.62	3.85	0.31	0.29	14.49	
7,197.00	1.27	184.64	7,196.39	-5.03	-4.56	6.55	0.25	0.18	8.33	
7,324.00	0.44	195.72	7,323.38	-6.90	-4.81	8.33	0.66	-0.65	8.72	
7,418.00	0.54	202.30	7,417.38	-7.66	-5.08	9.12	0.12	0.11	7.00	
7,509.00	0.54	176.52	7,508.37	-8.48	-5.21	9.92	0.26	0.00	-28.33	
7,681.00	0.40	184.65	7,680.37	-9.89	-5.21	11.18	0.09	-0.08	4.73	
Last SDI MWD Survey										
7,740.00	0.40	184.65	7,739.36	-10.30	-5.24	11.56	0.00	-0.00	0.00	
Projection to TD										

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
554.00	553.98	3.98	0.52	First SDI MWD Survey
7,681.00	7,680.37	-9.89	-5.21	Last SDI MWD Survey
7,740.00	7,739.36	-10.30	-5.24	Projection to TD

Checked By: _____ Approved By: _____ Date: _____