

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Avant Operaing, LLC 1515 Wynkoop Street, Suite 700 Denver, CO 80202		² OGRID Number 330396
		³ Reason for Filing Code/ Effective Date NW 10/31/23
⁴ API Number 30 - 0 25-51303	⁵ Pool Name GRAMA RIDGE; BONE SPRINGS, WEST	⁶ Pool Code 28432
⁷ Property Code 333899	⁸ Property Name Speyside 18 Federal	⁹ Well Number 501H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	18	22S	34E		152	North	656	East	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	22S	34E		72	South	653	East	Lea
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/31/23	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

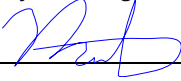
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
195739	Plains Pipeline, L.P.	O
24650	Targa Midstream Services, LLC	G

IV. Well Completion Data

²¹ Spud Date 4/16/2023	²² Ready Date 10/31/23	²³ TD 15,859MD/10,562TVD	²⁴ PBDT 15,821'	²⁵ Perforations 11,069'-15,796'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17-1/2"		13-3/8"	1,722'		1020
12-1/4"		9-5/8"	5,008'		1540
8-3/4"		5-1/2"	15,844'		2225
		2-7/8"	10,939'		

V. Well Test Data

³¹ Date New Oil 11/03/2023	³² Gas Delivery Date 11/03/2023	³³ Test Date 11/09/2023	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 360
³⁷ Choke Size 56	³⁸ Oil 1,457	³⁹ Water 4,959	⁴⁰ Gas 2,291		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: Meghan Twele			Approved by: PATRICIA MARTINEZ		
Title: Contract Regulatory Analyst			Title: PETROLEUM SPECIALIST		
E-mail Address: mtwele@outlook.com			Approval Date: 2/13/2024		
Date: 2/13/2024		Phone: 720-339-6880			

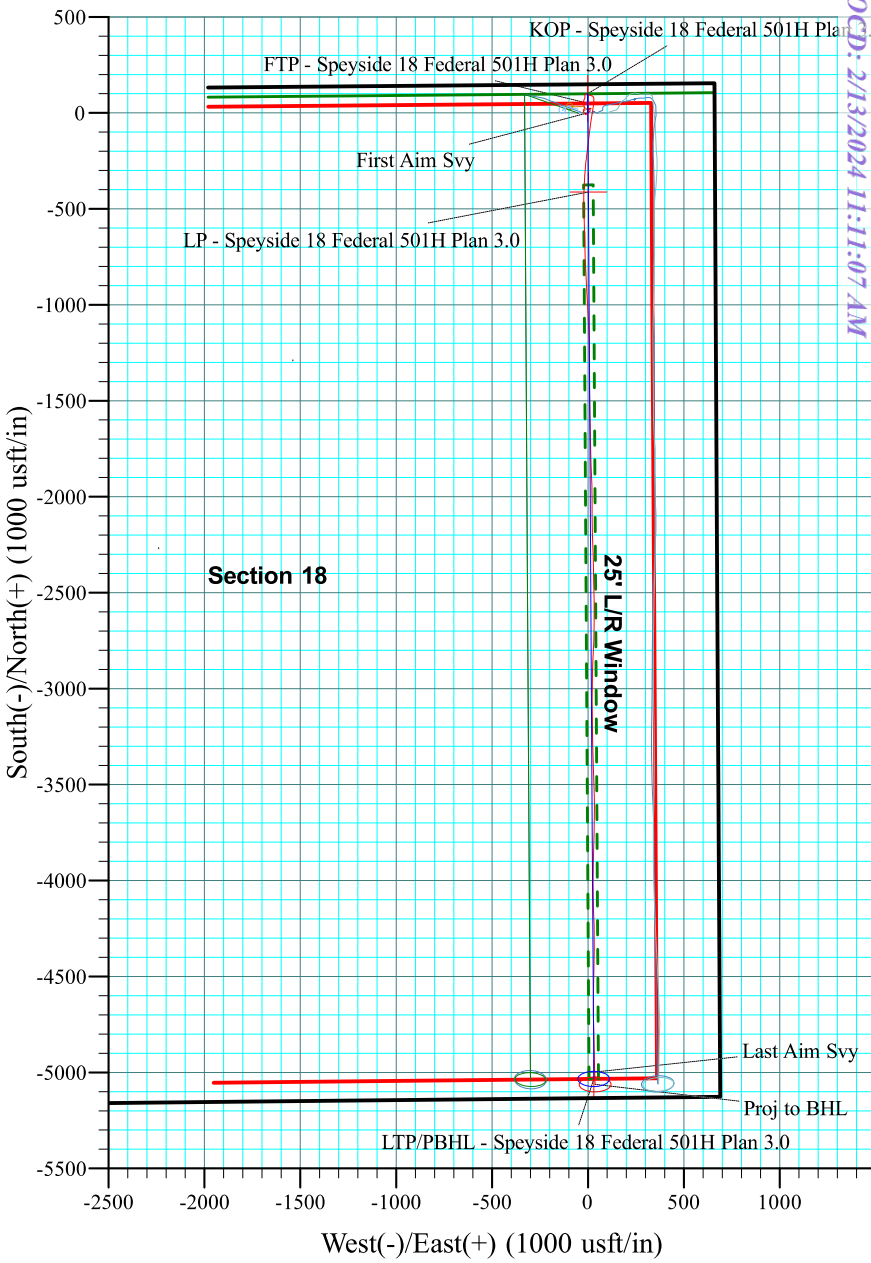
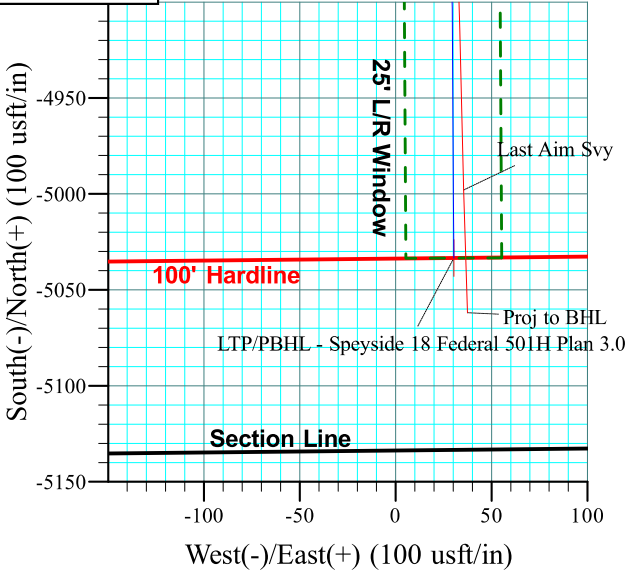
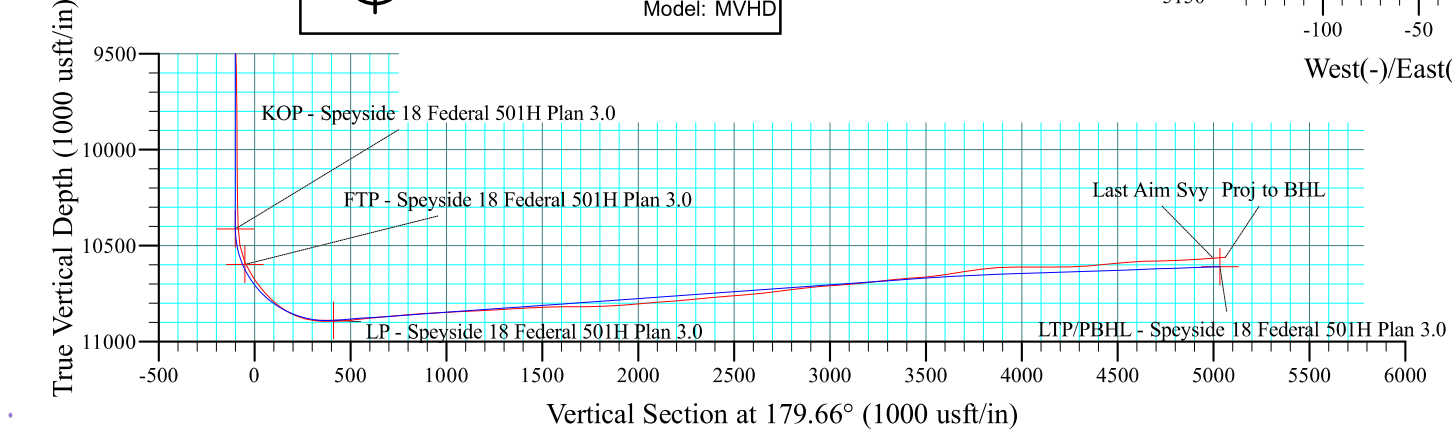
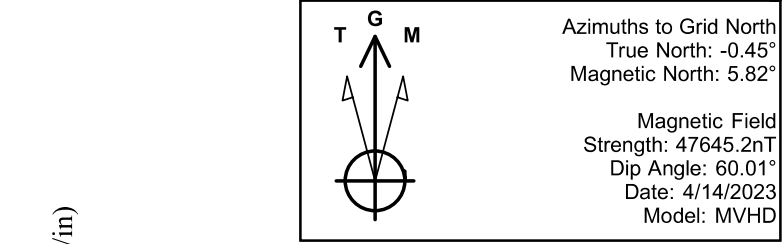
Released for Imaging: 2/13/2024 11:38:31 AM

Received by OCPD: 2/13/2024 11:11:07 AM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	
2	5620.00	0.00	0.00	5620.00	0.00	0.00	0.000	0.00	0.00	Build: 2°/100'
3	5723.12	2.06	359.67	5723.10	1.86	-0.01	2.000	359.67	-1.86	Hold: 2.06° Inc, 359.67° Azm
4	8398.65	2.06	359.67	8396.90	98.14	-0.56	0.000	0.00	-98.15	Drop: 2°/100'
5	8501.78	0.00	0.00	8500.00	100.00	-0.57	2.000	180.00	-100.00	Hold
6	10415.25	0.00	0.00	10413.47	100.00	-0.57	0.000	0.00	-100.00	KOP: 12°/100' @ 10415.25' MD
7	11199.21	94.08	179.66	10889.70	-411.40	2.50	12.001	179.66	411.41	LP/Hold: 94.08° Inc, 179.66° Azm
8	11199.21	94.08	179.66	10889.70	-411.40	2.50	0.000	0.00	411.41	LP/Hold: 94.08° Inc, 179.66° Azm
9	14397.99	94.08	179.66	10662.11	-3602.02	21.65	0.000	0.00	3602.08	Drop: 2°/100' @ 14398.00' MD
10	14501.92	92.00	179.65	10656.60	-3705.79	22.28	2.000	-179.89	3705.86	Hold: 92.00° Inc, 179.65° Azm
11	15830.36	92.00	179.65	10610.20	-5033.40	30.34	0.000	0.00	5033.49	LTP/PBHL - Speyside 18 Federal 501H Plan 3.0 PBHL

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
KOP - Speyside 18 Federal 501H Plan 3.0	10413.47	100.00	-0.57	509824.04	797693.21	32.39884	-103.50274
FTP - Speyside 18 Federal 501H Plan 3.0	10598.00	50.00	-0.27	509774.04	797693.51	32.39870	-103.50274
LTP/PBHL - Speyside 18 Federal 501H Plan 3.0	10610.20	-5033.40	30.34	504690.64	797724.12	32.38473	-103.50277
LP - Speyside 18 Federal 501H Plan 3.0	10889.70	-411.40	2.50	509312.64	797696.28	32.39743	-103.50275

PROJECT DETAILS: Lea Co., NM (NAD 83)	SITE DETAILS: Speyside 18 Federal Pad
Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Mexico Eastern Zone System Datum: Mean Sea Level	Site Centre Northing: 509649.38 Easting: 797697.64 Positional Uncertainty: 0.00 Convergence: 0.45 Local North: Grid



Aim Directional Services
Survey Report

Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well Speyside 18 Federal 501H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3534.00usft (25' RKB)
Site:	Speyside 18 Federal Pad	MD Reference:	Well @ 3534.00usft (25' RKB)
Well:	Speyside 18 Federal 501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.17-Aim-DB

Project	Lea Co., NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Speyside 18 Federal Pad			
Site Position:		Northing:	509,649.38 usft	Latitude: 32.39836
From:	Map	Easting:	797,697.63 usft	Longitude: -103.50274
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	Speyside 18 Federal 501H					
Well Position	+N/-S	0.00 usft	Northing:	509,724.04 usft	Latitude:	32.39856
	+E/-W	0.00 usft	Easting:	797,693.78 usft	Longitude:	-103.50275
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,509.00 usft
Grid Convergence:	0.45 °					

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	MVHD	4/14/2023	6.27	60.01	47,645.18512200	

Design	Surveys					
Audit Notes:						
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)		
	0.00	0.00	0.00	179.66		

Survey Program	Date	5/19/2023				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description		
205.00	15,859.00	Aim MWD Surveys (OH)	B001Mb_MWD+HRGM	OWSG MWD + HRGM		

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000
205.00	0.35	348.07	205.00	0.61	-0.13	-0.61	0.171	0.171	0.000
First Aim Svy									
294.00	0.35	341.91	294.00	1.14	-0.27	-1.14	0.042	0.000	-6.921
383.00	0.35	13.91	383.00	1.66	-0.29	-1.66	0.217	0.000	35.955
474.00	0.40	19.79	473.99	2.23	-0.11	-2.23	0.069	0.055	6.462
563.00	0.70	50.47	562.99	2.87	0.41	-2.86	0.461	0.337	34.472
654.00	0.44	5.03	653.99	3.57	0.87	-3.56	0.551	-0.286	-49.934
744.00	0.44	64.09	743.98	4.06	1.21	-4.06	0.482	0.000	65.622
924.00	0.44	67.61	923.98	4.63	2.47	-4.61	0.015	0.000	1.956

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Site:	Speyside 18 Federal Pad	MD Reference:	Well @ 3534.00usft (25' RKB)
Well:	Speyside 18 Federal 501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.17-Aim-DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,018.00	0.62	165.78	1,017.98	4.27	2.93	-4.26	0.861	0.191	104.436	
1,112.00	1.10	67.17	1,111.97	4.13	3.89	-4.11	1.427	0.511	-104.904	
1,206.00	0.84	43.96	1,205.95	4.98	5.20	-4.95	0.496	-0.277	-24.691	
1,301.00	0.97	55.30	1,300.94	5.94	6.34	-5.90	0.232	0.137	11.937	
1,395.00	0.79	54.34	1,394.93	6.77	7.52	-6.72	0.192	-0.191	-1.021	
1,489.00	1.32	63.21	1,488.92	7.63	9.01	-7.58	0.588	0.564	9.436	
1,584.00	0.97	25.16	1,583.90	8.85	10.33	-8.79	0.859	-0.368	-40.053	
1,658.00	1.36	15.49	1,657.88	10.27	10.83	-10.20	0.588	0.527	-13.068	
1,773.00	1.89	8.81	1,772.84	13.46	11.49	-13.39	0.489	0.461	-5.809	
1,867.00	1.45	4.06	1,866.80	16.17	11.81	-16.10	0.490	-0.468	-5.053	
1,962.00	0.84	299.29	1,961.78	17.71	11.29	-17.65	1.400	-0.642	-68.179	
2,056.00	1.05	284.78	2,055.77	18.27	9.85	-18.21	0.337	0.223	-15.436	
2,151.00	1.10	268.96	2,150.75	18.48	8.10	-18.43	0.316	0.053	-16.653	
2,245.00	1.23	289.79	2,244.73	18.80	6.25	-18.76	0.468	0.138	22.160	
2,340.00	1.23	299.55	2,339.71	19.65	4.40	-19.62	0.220	0.000	10.274	
2,434.00	0.92	299.55	2,433.69	20.52	2.87	-20.50	0.330	-0.330	0.000	
2,527.00	0.79	284.87	2,526.68	21.05	1.60	-21.04	0.273	-0.140	-15.785	
2,621.00	0.44	295.33	2,620.68	21.37	0.65	-21.37	0.390	-0.372	11.128	
2,716.00	0.48	325.65	2,715.67	21.86	0.09	-21.86	0.256	0.042	31.916	
2,810.00	0.57	60.05	2,809.67	22.42	0.28	-22.41	0.822	0.096	100.426	
2,904.00	1.41	85.89	2,903.66	22.73	1.83	-22.72	0.990	0.894	27.489	
2,998.00	2.29	83.95	2,997.61	23.01	4.86	-22.98	0.938	0.936	-2.064	
3,092.00	1.80	93.53	3,091.55	23.12	8.20	-23.07	0.634	-0.521	10.191	
3,186.00	0.44	149.61	3,185.53	22.72	9.85	-22.66	1.699	-1.447	59.660	
3,281.00	0.31	251.30	3,280.53	22.32	9.79	-22.26	0.618	-0.137	107.042	
3,375.00	0.62	71.83	3,374.53	22.40	10.04	-22.34	0.989	0.330	-190.926	
3,469.00	1.32	93.62	3,468.51	22.49	11.60	-22.42	0.829	0.745	23.181	
3,564.00	1.14	88.61	3,563.49	22.44	13.64	-22.36	0.221	-0.189	-5.274	
3,658.00	0.79	49.41	3,657.48	22.89	15.06	-22.80	0.773	-0.372	-41.702	
3,753.00	0.62	42.29	3,752.47	23.69	15.91	-23.60	0.201	-0.179	-7.495	
3,847.00	0.53	277.49	3,846.47	24.12	15.82	-24.03	1.085	-0.096	-132.766	
3,941.00	1.54	267.82	3,940.45	24.13	14.13	-24.05	1.087	1.074	-10.287	
4,035.00	1.41	270.37	4,034.42	24.09	11.71	-24.02	0.155	-0.138	2.713	
4,130.00	1.10	271.60	4,129.40	24.13	9.63	-24.07	0.328	-0.326	1.295	
4,224.00	1.14	238.99	4,223.38	23.67	7.92	-23.62	0.670	0.043	-34.691	
4,318.00	1.27	223.35	4,317.36	22.43	6.41	-22.39	0.375	0.138	-16.638	
4,413.00	1.63	204.01	4,412.33	20.43	5.13	-20.40	0.634	0.379	-20.358	
4,507.00	1.93	212.54	4,506.29	17.87	3.74	-17.85	0.425	0.319	9.074	
4,601.00	2.20	216.85	4,600.22	15.10	1.80	-15.09	0.331	0.287	4.585	
4,695.00	1.54	210.87	4,694.17	12.57	0.07	-12.57	0.731	-0.702	-6.362	
4,790.00	1.63	191.53	4,789.14	10.15	-0.85	-10.15	0.568	0.095	-20.358	
4,884.00	1.76	196.72	4,883.10	7.46	-1.53	-7.47	0.214	0.138	5.521	
4,944.00	1.49	196.02	4,943.07	5.82	-2.01	-5.84	0.451	-0.450	-1.167	

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Survey										
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5,084.00	1.41	205.95	5,083.03	2.53	-3.27	-2.55	0.188	-0.057	7.093	
5,178.00	1.63	214.82	5,177.00	0.39	-4.54	-0.42	0.342	0.234	9.436	
5,272.00	1.67	203.31	5,270.96	-1.97	-5.84	1.93	0.355	0.043	-12.245	
5,367.00	1.54	205.60	5,365.92	-4.39	-6.94	4.35	0.153	-0.137	2.411	
5,461.00	1.71	209.29	5,459.88	-6.75	-8.18	6.70	0.212	0.181	3.926	
5,555.00	2.02	265.19	5,553.84	-8.11	-10.51	8.05	1.882	0.330	59.468	
5,650.00	3.38	315.02	5,648.74	-6.27	-14.16	6.19	2.723	1.432	52.453	
5,744.00	4.04	326.09	5,742.55	-1.57	-17.97	1.46	1.033	0.702	11.777	
5,838.00	3.12	332.86	5,836.36	3.46	-20.98	-3.58	1.075	-0.979	7.202	
5,933.00	2.51	347.10	5,931.25	7.79	-22.63	-7.92	0.972	-0.642	14.989	
6,027.00	1.93	15.49	6,025.18	11.32	-22.66	-11.45	1.303	-0.617	30.202	
6,121.00	1.54	14.52	6,119.14	14.07	-21.92	-14.20	0.416	-0.415	-1.032	
6,215.00	1.63	20.85	6,213.10	16.54	-21.13	-16.67	0.209	0.096	6.734	
6,309.00	1.67	11.88	6,307.06	19.13	-20.37	-19.25	0.278	0.043	-9.543	
6,404.00	1.63	20.85	6,402.02	21.75	-19.61	-21.86	0.275	-0.042	9.442	
6,498.00	1.45	19.88	6,495.99	24.12	-18.73	-24.23	0.193	-0.191	-1.032	
6,592.00	1.85	4.59	6,589.95	26.75	-18.20	-26.85	0.629	0.426	-16.266	
6,686.00	2.37	346.48	6,683.89	30.15	-18.53	-30.26	0.893	0.553	-19.266	
6,781.00	2.33	347.01	6,778.81	33.94	-19.43	-34.05	0.048	-0.042	0.558	
6,875.00	2.59	349.12	6,872.72	37.89	-20.26	-38.01	0.293	0.277	2.245	
6,970.00	2.46	351.58	6,967.63	42.01	-20.96	-42.14	0.178	-0.137	2.589	
7,064.00	2.11	351.85	7,061.55	45.72	-21.50	-45.85	0.373	-0.372	0.287	
7,159.00	2.02	358.17	7,156.49	49.13	-21.80	-49.25	0.258	-0.095	6.653	
7,253.00	1.76	355.98	7,250.44	52.22	-21.96	-52.35	0.287	-0.277	-2.330	
7,347.00	1.63	359.58	7,344.40	55.00	-22.07	-55.13	0.179	-0.138	3.830	
7,441.00	1.54	358.35	7,438.36	57.60	-22.11	-57.73	0.102	-0.096	-1.309	
7,536.00	1.76	359.84	7,533.32	60.33	-22.15	-60.46	0.236	0.232	1.568	
7,631.00	2.46	15.40	7,628.26	63.76	-21.62	-63.88	0.946	0.737	16.379	
7,725.00	2.07	20.67	7,722.19	67.29	-20.48	-67.41	0.470	-0.415	5.606	
7,819.00	2.20	22.34	7,816.12	70.55	-19.20	-70.66	0.153	0.138	1.777	
7,914.00	1.93	22.43	7,911.06	73.71	-17.89	-73.82	0.284	-0.284	0.095	
8,009.00	1.76	22.52	8,006.01	76.54	-16.72	-76.64	0.179	-0.179	0.095	
8,103.00	1.36	16.10	8,099.98	78.94	-15.86	-79.04	0.464	-0.426	-6.830	
8,197.00	2.07	0.90	8,193.93	81.71	-15.53	-81.80	0.891	0.755	-16.170	
8,291.00	2.55	358.88	8,287.86	85.50	-15.54	-85.59	0.518	0.511	-2.149	
8,386.00	2.02	0.63	8,382.78	89.29	-15.56	-89.38	0.563	-0.558	1.842	
8,480.00	1.63	4.77	8,476.73	92.28	-15.43	-92.37	0.438	-0.415	4.404	
8,575.00	1.49	12.85	8,571.70	94.83	-15.05	-94.92	0.274	-0.147	8.505	
8,669.00	1.23	28.32	8,665.67	96.91	-14.30	-96.99	0.476	-0.277	16.457	
8,763.00	0.79	29.81	8,759.66	98.36	-13.50	-98.44	0.469	-0.468	1.585	
8,857.00	0.75	63.30	8,853.65	99.20	-12.62	-99.27	0.474	-0.043	35.628	
8,951.00	0.88	82.11	8,947.64	99.57	-11.36	-99.64	0.314	0.138	20.011	
9,045.00	1.05	92.92	9,041.63	99.63	-9.78	-99.68	0.264	0.181	11.500	

Aim Directional Services

Survey Report

Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well Speyside 18 Federal 501H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3534.00usft (25' RKB)
Site:	Speyside 18 Federal Pad	MD Reference:	Well @ 3534.00usft (25' RKB)
Well:	Speyside 18 Federal 501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.17-Aim-DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,139.00	1.67	106.10	9,135.60	99.20	-7.61	-99.25	0.735	0.660	14.021	
9,233.00	2.33	103.73	9,229.54	98.37	-4.44	-98.40	0.707	0.702	-2.521	
9,328.00	0.88	101.97	9,324.50	97.76	-1.85	-97.77	1.527	-1.526	-1.853	
9,422.00	0.31	37.72	9,418.50	97.81	-0.98	-97.82	0.847	-0.606	-68.351	
9,516.00	1.54	123.95	9,512.49	97.31	0.22	-97.30	1.650	1.309	91.734	
9,610.00	2.46	119.46	9,606.43	95.61	3.02	-95.59	0.992	0.979	-4.777	
9,704.00	1.80	124.74	9,700.36	93.78	5.99	-93.74	0.732	-0.702	5.617	
9,798.00	1.14	112.87	9,794.33	92.57	8.07	-92.52	0.770	-0.702	-12.628	
9,892.00	1.54	106.45	9,888.30	91.85	10.14	-91.79	0.454	0.426	-6.830	
9,986.00	1.76	101.62	9,982.27	91.20	12.77	-91.13	0.277	0.234	-5.138	
10,080.00	2.11	104.96	10,076.21	90.47	15.85	-90.37	0.391	0.372	3.553	
10,174.00	2.15	96.70	10,170.15	89.81	19.27	-89.70	0.329	0.043	-8.787	
10,255.00	1.80	107.16	10,251.10	89.26	22.00	-89.13	0.619	-0.432	12.914	
10,314.00	2.02	119.90	10,310.07	88.47	23.79	-88.33	0.808	0.373	21.593	
10,408.00	2.90	137.13	10,403.98	85.90	26.84	-85.74	1.213	0.936	18.330	
10,503.00	9.10	165.87	10,498.43	76.84	30.31	-76.66	7.055	6.526	30.253	
10,597.00	23.65	185.82	10,588.43	50.72	30.21	-50.54	16.377	15.479	21.223	
10,691.00	35.30	190.13	10,670.13	5.07	23.50	-4.93	12.590	12.394	4.585	
10,786.00	41.27	188.11	10,744.67	-53.03	14.25	53.11	6.420	6.284	-2.126	
10,880.00	51.38	187.05	10,809.50	-120.34	5.34	120.37	10.786	10.755	-1.128	
10,975.00	65.19	186.70	10,859.32	-200.38	-4.29	200.35	14.540	14.537	-0.368	
11,069.00	79.96	185.20	10,887.40	-289.34	-13.51	289.25	15.786	15.713	-1.596	
11,163.00	90.81	182.66	10,894.95	-382.67	-19.91	382.54	11.852	11.543	-2.702	
11,203.00	91.56	181.34	10,894.12	-422.63	-21.30	422.50	3.795	1.875	-3.300	
11,257.00	94.95	178.79	10,891.06	-476.53	-21.37	476.40	7.851	6.278	-4.722	
11,282.00	95.65	178.61	10,888.75	-501.42	-20.80	501.29	2.890	2.800	-0.720	
11,377.00	96.18	178.26	10,878.96	-595.88	-18.22	595.76	0.667	0.558	-0.368	
11,471.00	94.68	178.17	10,870.06	-689.41	-15.31	689.31	1.599	-1.596	-0.096	
11,565.00	95.12	178.61	10,862.03	-783.03	-12.68	782.94	0.661	0.468	0.468	
11,659.00	93.67	177.21	10,854.83	-876.68	-9.26	876.61	2.141	-1.543	-1.489	
11,754.00	93.36	176.06	10,849.00	-971.34	-3.69	971.30	1.252	-0.326	-1.211	
11,849.00	92.35	177.21	10,844.27	-1,066.06	1.88	1,066.05	1.610	-1.063	1.211	
11,943.00	92.09	178.70	10,840.63	-1,159.92	5.23	1,159.93	1.608	-0.277	1.585	
12,037.00	93.67	179.58	10,835.91	-1,253.79	6.64	1,253.81	1.923	1.681	0.936	
12,131.00	94.20	179.49	10,829.46	-1,347.56	7.40	1,347.58	0.572	0.564	-0.096	
12,225.00	92.13	178.79	10,824.27	-1,441.40	8.81	1,441.43	2.324	-2.202	-0.745	
12,320.00	92.26	179.67	10,820.63	-1,536.33	10.08	1,536.36	0.936	0.137	0.926	
12,413.00	90.33	179.23	10,818.53	-1,629.29	10.98	1,629.33	2.128	-2.075	-0.473	
12,507.00	89.89	177.91	10,818.35	-1,723.26	13.32	1,723.31	1.480	-0.468	-1.404	
12,601.00	92.66	177.73	10,816.25	-1,817.16	16.90	1,817.23	2.953	2.947	-0.191	
12,695.00	93.67	178.53	10,811.06	-1,910.97	19.96	1,911.05	1.370	1.074	0.851	
12,789.00	95.52	180.20	10,803.53	-2,004.65	21.00	2,004.74	2.647	1.968	1.777	
12,884.00	93.93	179.14	10,795.71	-2,099.32	21.55	2,099.41	2.009	-1.674	-1.116	
12,978.00	94.29	178.00	10,788.97	-2,193.05	23.89	2,193.15	1.269	0.383	-1.213	

Aim Directional Services
Survey Report

Company:	Avant Operating, LLC	Local Co-ordinate Reference:	Well Speyside 18 Federal 501H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	Well @ 3534.00usft (25' RKB)
Site:	Speyside 18 Federal Pad	MD Reference:	Well @ 3534.00usft (25' RKB)
Well:	Speyside 18 Federal 501H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.17-Aim-DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,072.00	95.56	178.26	10,780.90	-2,286.65	26.94	2,286.77	1.379	1.351	0.277	
13,166.00	95.56	178.61	10,771.79	-2,380.17	29.50	2,380.31	0.371	0.000	0.372	
13,260.00	94.81	179.67	10,763.30	-2,473.77	30.90	2,473.91	1.378	-0.798	1.128	
13,354.00	93.32	178.79	10,756.64	-2,567.53	32.16	2,567.67	1.840	-1.585	-0.936	
13,448.00	97.63	180.63	10,747.67	-2,661.07	32.64	2,661.22	4.982	4.585	1.957	
13,543.00	97.58	182.39	10,735.09	-2,755.20	30.16	2,755.33	1.837	-0.053	1.853	
13,638.00	96.97	182.83	10,723.06	-2,849.33	25.87	2,849.44	0.790	-0.642	0.463	
13,732.00	94.46	180.81	10,713.70	-2,942.81	22.90	2,942.89	3.421	-2.670	-2.149	
13,826.00	93.67	179.49	10,707.04	-3,036.57	22.66	3,036.65	1.633	-0.840	-1.404	
13,921.00	95.65	179.67	10,699.32	-3,131.25	23.35	3,131.33	2.093	2.084	0.189	
14,015.00	96.70	179.84	10,689.21	-3,224.70	23.75	3,224.78	1.131	1.117	0.181	
14,110.00	96.04	178.44	10,678.67	-3,319.10	25.17	3,319.19	1.621	-0.695	-1.474	
14,204.00	94.02	177.73	10,670.43	-3,412.68	28.30	3,412.79	2.277	-2.149	-0.755	
14,298.00	94.68	178.09	10,663.30	-3,506.35	31.72	3,506.47	0.799	0.702	0.383	
14,392.00	98.59	179.49	10,652.44	-3,599.67	33.69	3,599.81	4.415	4.160	1.489	
14,486.00	99.25	181.16	10,637.86	-3,692.53	33.17	3,692.66	1.890	0.702	1.777	
14,580.00	98.15	181.34	10,623.65	-3,785.43	31.14	3,785.55	1.185	-1.170	0.191	
14,675.00	93.05	181.34	10,614.38	-3,879.92	28.93	3,880.02	5.368	-5.368	0.000	
14,769.00	89.76	180.46	10,612.07	-3,973.86	27.45	3,973.96	3.623	-3.500	-0.936	
14,863.00	90.20	179.49	10,612.11	-4,067.86	27.50	4,067.95	1.133	0.468	-1.032	
14,957.00	89.49	178.44	10,612.36	-4,161.84	29.19	4,161.94	1.348	-0.755	-1.117	
15,052.00	91.87	178.61	10,611.23	-4,256.80	31.64	4,256.91	2.512	2.505	0.179	
15,146.00	94.33	179.58	10,606.15	-4,350.64	33.12	4,350.76	2.813	2.617	1.032	
15,240.00	96.84	181.78	10,597.00	-4,444.18	32.02	4,444.29	3.543	2.670	2.340	
15,334.00	94.11	181.16	10,588.03	-4,537.71	29.62	4,537.80	2.978	-2.904	-0.660	
15,429.00	92.35	180.20	10,582.68	-4,632.54	28.49	4,632.63	2.110	-1.853	-1.011	
15,523.00	90.59	178.96	10,580.27	-4,726.51	29.18	4,726.60	2.290	-1.872	-1.319	
15,617.00	92.22	178.35	10,577.96	-4,820.45	31.39	4,820.55	1.851	1.734	-0.649	
15,711.00	94.64	179.14	10,572.34	-4,914.25	33.44	4,914.36	2.708	2.574	0.840	
15,795.00	93.80	178.17	10,566.16	-4,998.00	35.41	4,998.12	1.525	-1.000	-1.155	
Last Aim Svy										
15,859.00	93.80	178.17	10,561.92	-5,061.82	37.45	5,061.96	0.000	0.000	0.000	
Proj to BHL										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
205.00	205.00	0.61	-0.13	First Aim Svy	
15,795.00	10,566.16	-4,998.00	35.41	Last Aim Svy	
15,859.00	10,561.92	-5,061.82	37.45	Proj to BHL	

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
1. WELL API NO. 30-025-51303										
2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN										
3. State Oil & Gas Lease No.										
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Speyside 18 Federal				
						6. Well Number: 501H				
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Avant Operating, LLC						9. OGRID 330396				
10. Address of Operator 1515 Wynkoop Street, Suite 700. Denver, CO 80202						11. Pool name or Wildcat GRAMA RIDGE; BONE SPRINGS, WEST				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	A	18	22S	34E		152	North	656	East	Lea
BH:	P	18	22S	34E		72	South	653	East	Lea
13. Date Spudded 4/16/2023	14. Date T.D. Reached 5/19/2023	15. Date Rig Released 5/19/2023			16. Date Completed (Ready to Produce) 10/31/2023			17. Elevations (DF and RKB, RT, GR, etc.) 3509		
18. Total Measured Depth of Well 15,859'			19. Plug Back Measured Depth 15,821'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Gamma Ray		
22. Producing Interval(s), of this completion - Top, Bottom, Name 11,069'-15,796'										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8		54.5		1,722'		17-1/2		1020 SX		
9-5/8		40		5,008'		12-1/4		1540 SX		
5-1/2		20		15,844'		8-3/4		2225 SX		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN						
26. Perforation record (interval, size, and number) 11,069'-15,796', 1440 holes						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11,069'-15,796'		13,320,426 gals slick water		
								11,849,840# 100 mesh sand		
28. PRODUCTION										
Date First Production 11/13/2023		Production Method (Flowing, gas lift, pumping - Size and type pump) Flows from well				Well Status (Prod. or Shut-in) Producing				
Date of Test 11/09/2023	Hours Tested 24	Choke Size 56	Prod'n For Test Period	Oil - Bbl 1457	Gas - MCF 2291	Water - Bbl. 4959	Gas - Oil Ratio 1572			
Flow Tubing Press.	Casing Pressure 360	Calculated 24-Hour Rate	Oil - Bbl. 1457	Gas - MCF 2291	Water - Bbl. 4959	Oil Gravity - API - (Corr.) 42				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By			
31. List Attachments C-104, Survey, C-102, Additional points required										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial: Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature 		Printed Name Meghan Twele			Title Contract Regulatory Analyst			Date 1/24/2024		
E-mail Address mtwele@outlook.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy	T. Rustler	1700	T. Ojo Alamo	T. Penn A"	
T. Salt	T. Yates	3655	T. Kirtland	T. Penn. "B"	
B. Salt	T Capitan Reef	4065	T. Fruitland	T. Penn. "C"	
T. Yates	T Cherry Canyon	5155	T. Pictured Cliffs	T. Penn. "D"	
T. 7 Rivers	T Brushy Canyon	7366	T. Cliff House	T. Leadville	
T. Queen	Bone Spring Lime	8771	T. Menefee	T. Madison	
T. Grayburg	1st Bone Spring Sand	9875	T. Point Lookout	T. Elbert	
T. San Andres	2rd Bone Spring Sand	10499	T. Mancos	T. McCracken	
T. Glorieta	T. McKee		T. Gallup	T. Ignacio Otzte	
T. Paddock	T. Ellenburger		Base Greenhorn	T.Granite	
T. Blinebry	T. Gr. Wash		T. Dakota		
T.Tubb	T. Delaware Sand		T. Morrison		
T. Drinkard	T. Bone Springs		T.Todilto		
T. Abo	T.		T. Entrada		
T. Wolfcamp	T.		T. Wingate		
T. Penn	T.		T. Chinle		
T. Cisco (Bough C)	T.		T. Permian		

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 313846

ACKNOWLEDGMENTS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 313846
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 313846

CONDITIONS

Operator: Avant Operating, LLC 1515 Wynkoop Street Denver, CO 80202	OGRID: 330396
	Action Number: 313846
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 within 10 days of BLM approval.	2/13/2024