

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

HORP

NOV 22 2016

RECEIVED

CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-43470
1. Type of Well: Oil Well ☐ Gas Well ☒ Other AGI Well		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Targa Midstream Services LLC		6. State Oil & Gas Lease No. N/A
3. Address of Operator 1000 Louisiana, Houston, TX 77002		7. Lease Name or Unit Agreement Name Monument AGI D
4. Well Location Unit Letter <u>O</u> : <u>685</u> feet from the <u>South</u> line and <u>2362</u> feet from the <u>East</u> line Section <u>36</u> Township <u>19S</u> Range <u>36E</u> NMPM LEA County		8. Well Number <u>2</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3584 GL		9. OGRID Number 24650
		10. Pool name or Wildcat DEV-AGI

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: slight directional deviation to avoid old well ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Given that we are offsetting the #1 well which was P&A'd nearby and the deviation survey which lacks direction indicates a potential conflict with the planned well, we propose a slight deviation as per the attached plan to ensure we don't intersect the old well bore. Basically at 5,300' the wellbore is directly underneath the new well location. Obviously, this is assuming the worst case. However, at TD we could be as far as 100' past the new well bore. We are going directional to avoid a collision with the Monument AGI #1. Although not likely, it is possible. By drilling directionally to the East we have eliminated this possibility. An additional side benefit is this positions the open hole section of the new well ~225' farther out of the injection radius where the BHP and H2S concentrations may be lower. This will make drilling into this zone safer. The directional plan and surveys are attached for your review and approval.

Spud Date: 11/22/2016

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Consultant to Targa DATE 11/22/16

Type or print name Alberto A. Gutierrez, RG

E-mail address: aag@geolex.com

PHONE: 505-842-8000

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 11/22/16
 Conditions of Approval (if any):

Company Name: Cambrian Management

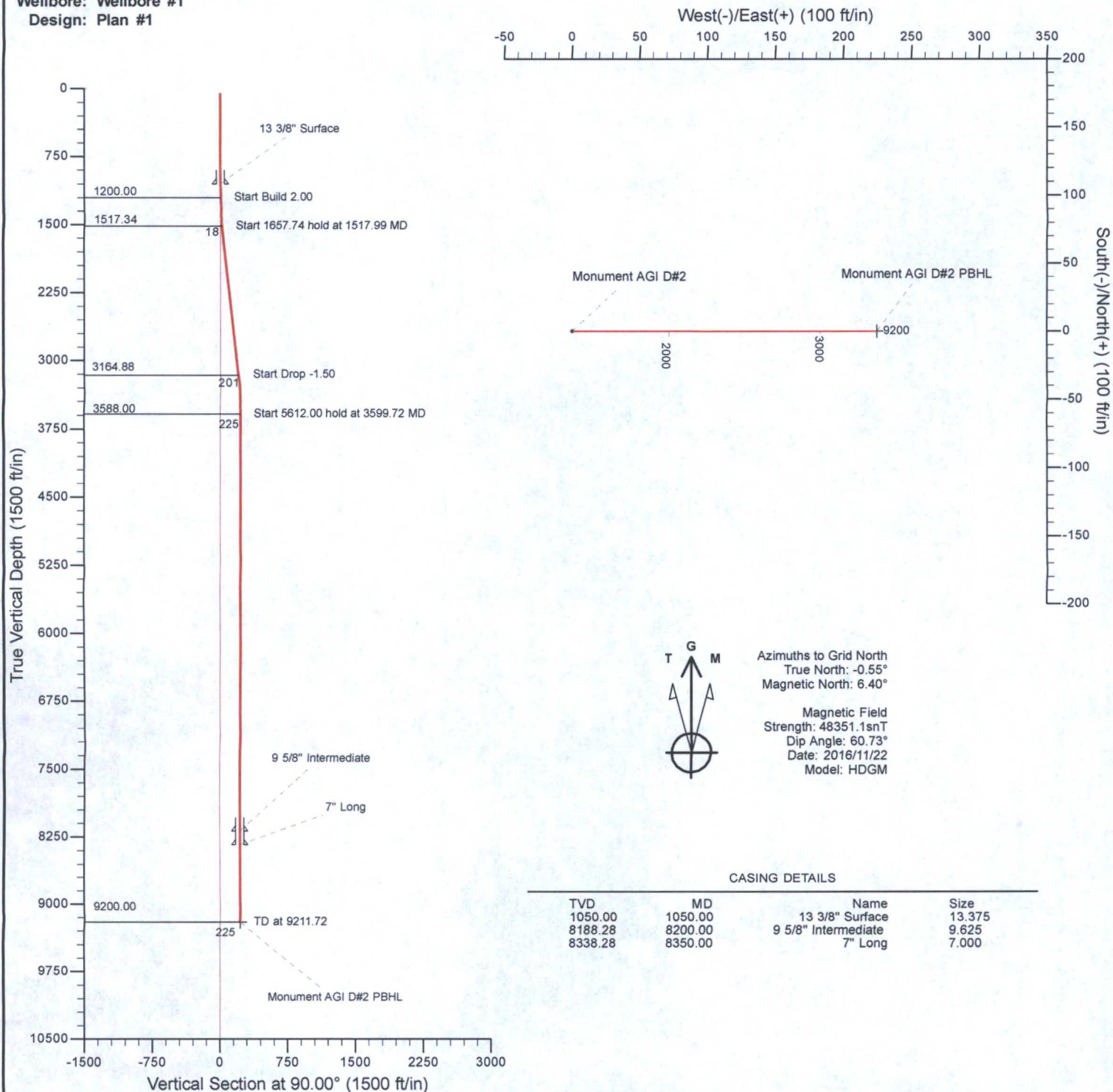
Project: Lea County, NM

Site: Monument AGI D#2

Well: Monument AGI D#2

Wellbore: Wellbore #1

Design: Plan #1



CASING DETAILS

TVD	MD	Name	Size
1050.00	1050.00	13 3/8" Surface	13.375
8188.28	8200.00	9 5/8" Intermediate	9.625
8338.28	8350.00	7" Long	7.000

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Monument AGI D#2 PBHL	9200.00	0.00	224.77	587700.92	857641.76	32° 36' 41.173 N	103° 18' 22.000 W	Point

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	0.00	0.00	0.00	
2	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	
3	1517.99	6.36	90.00	1517.34	0.00	17.63	2.00	90.00	17.63	
4	3175.74	6.36	90.00	3164.88	0.00	201.26	0.00	0.00	201.26	
5	3599.72	0.00	0.00	3588.00	0.00	224.77	1.50	180.00	224.77	
6	9211.72	0.00	0.00	9200.00	0.00	224.77	0.00	0.00	224.77	Monument AGI D#2 PBHL

Cambrian Management

Lea County, NM

Monument AGI D#2

Monument AGI D#2

Wellbore #1

Plan: Plan #1

Standard Planning Report

22 November, 2016



Scout Downhole Inc.

Planning Report



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monument AGI D#2
Company:	Cambrian Management	TVD Reference:	WELL @ 3584.00ft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3584.00ft (Original Well Elev)
Site:	Monument AGI D#2	North Reference:	Grid
Well:	Monument AGI D#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Monument AGI D#2		
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Site Position:		Northing:	587,700.93 ft	Latitude:	32° 36' 41.195 N
From:	Map	Easting:	857,416.99 ft	Longitude:	103° 18' 24.627 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.55 °

Well	Monument AGI D#2				
Well Position	+N/-S	0.00 ft	Northing:	587,700.93 ft	Latitude: 32° 36' 41.195 N
	+E/-W	0.00 ft	Easting:	857,416.99 ft	Longitude: 103° 18' 24.627 W
Position Uncertainty	0.00 ft		Wellhead Elevation:		Ground Level: 3,584.00 ft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2016/11/22	6.95	60.73	48,351.1

Design	Plan #1				
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Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	90.00	

Plan Survey Tool Program	Date	2016/11/22			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	9,211.73	Plan #1 (Wellbore #1)	MWD+HRGM	
				OWSG MWD + HRGM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,517.99	6.36	90.00	1,517.34	0.00	17.63	2.00	2.00	0.00	90.00	
3,175.74	6.36	90.00	3,164.88	0.00	201.26	0.00	0.00	0.00	0.00	
3,599.72	0.00	0.00	3,588.00	0.00	224.77	1.50	-1.50	0.00	180.00	
9,211.73	0.00	0.00	9,200.00	0.00	224.77	0.00	0.00	0.00	0.00	Monument AGI D#2

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Planning Report



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Project:	Lea County, NM	MD Reference:	WELL @ 3584.00ft (Original Well Elev)
Site:	Monument AGI D#2	North Reference:	Grid
Well:	Monument AGI D#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8"									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	2.00	90.00	1,299.98	0.00	1.75	1.75	2.00	2.00	0.00
1,400.00	4.00	90.00	1,399.84	0.00	6.98	6.98	2.00	2.00	0.00
1,500.00	6.00	90.00	1,499.45	0.00	15.69	15.69	2.00	2.00	0.00
1,517.99	6.36	90.00	1,517.34	0.00	17.63	17.63	2.00	2.00	0.00
1,600.00	6.36	90.00	1,598.84	0.00	26.71	26.71	0.00	0.00	0.00
1,700.00	6.36	90.00	1,698.23	0.00	37.79	37.79	0.00	0.00	0.00
1,800.00	6.36	90.00	1,797.61	0.00	48.87	48.87	0.00	0.00	0.00
1,900.00	6.36	90.00	1,897.00	0.00	59.95	59.95	0.00	0.00	0.00
2,000.00	6.36	90.00	1,996.38	0.00	71.02	71.02	0.00	0.00	0.00
2,100.00	6.36	90.00	2,095.77	0.00	82.10	82.10	0.00	0.00	0.00
2,200.00	6.36	90.00	2,195.15	0.00	93.18	93.18	0.00	0.00	0.00
2,300.00	6.36	90.00	2,294.53	0.00	104.26	104.26	0.00	0.00	0.00
2,400.00	6.36	90.00	2,393.92	0.00	115.33	115.33	0.00	0.00	0.00
2,500.00	6.36	90.00	2,493.30	0.00	126.41	126.41	0.00	0.00	0.00
2,600.00	6.36	90.00	2,592.69	0.00	137.49	137.49	0.00	0.00	0.00
2,700.00	6.36	90.00	2,692.07	0.00	148.56	148.56	0.00	0.00	0.00
2,800.00	6.36	90.00	2,791.46	0.00	159.64	159.64	0.00	0.00	0.00
2,900.00	6.36	90.00	2,890.84	0.00	170.72	170.72	0.00	0.00	0.00
3,000.00	6.36	90.00	2,990.23	0.00	181.80	181.80	0.00	0.00	0.00
3,100.00	6.36	90.00	3,089.61	0.00	192.87	192.87	0.00	0.00	0.00
3,175.74	6.36	90.00	3,164.88	0.00	201.26	201.26	0.00	0.00	0.00
3,200.00	6.00	90.00	3,189.00	0.00	203.87	203.87	1.50	-1.50	0.00
3,300.00	4.50	90.00	3,288.58	0.00	213.02	213.02	1.50	-1.50	0.00
3,400.00	3.00	90.00	3,388.37	0.00	219.55	219.55	1.50	-1.50	0.00
3,500.00	1.50	90.00	3,488.29	0.00	223.47	223.47	1.50	-1.50	0.00
3,599.72	0.00	0.00	3,588.00	0.00	224.77	224.77	1.50	-1.50	0.00
3,700.00	0.00	0.00	3,688.28	0.00	224.77	224.77	0.00	0.00	0.00
3,800.00	0.00	0.00	3,788.28	0.00	224.77	224.77	0.00	0.00	0.00
3,900.00	0.00	0.00	3,888.28	0.00	224.77	224.77	0.00	0.00	0.00
4,000.00	0.00	0.00	3,988.28	0.00	224.77	224.77	0.00	0.00	0.00
4,100.00	0.00	0.00	4,088.28	0.00	224.77	224.77	0.00	0.00	0.00
4,200.00	0.00	0.00	4,188.28	0.00	224.77	224.77	0.00	0.00	0.00
4,300.00	0.00	0.00	4,288.28	0.00	224.77	224.77	0.00	0.00	0.00
4,400.00	0.00	0.00	4,388.28	0.00	224.77	224.77	0.00	0.00	0.00
4,500.00	0.00	0.00	4,488.28	0.00	224.77	224.77	0.00	0.00	0.00
4,600.00	0.00	0.00	4,588.28	0.00	224.77	224.77	0.00	0.00	0.00
4,700.00	0.00	0.00	4,688.28	0.00	224.77	224.77	0.00	0.00	0.00
4,800.00	0.00	0.00	4,788.28	0.00	224.77	224.77	0.00	0.00	0.00
4,900.00	0.00	0.00	4,888.28	0.00	224.77	224.77	0.00	0.00	0.00

Scout Downhole Inc.
Planning Report



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Site:	Monument AGI D#2	North Reference:	Grid
Well:	Monument AGI D#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned 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)
5,000.00	0.00	0.00	4,988.28	0.00	224.77	224.77	0.00	0.00	0.00
5,100.00	0.00	0.00	5,088.28	0.00	224.77	224.77	0.00	0.00	0.00
5,200.00	0.00	0.00	5,188.28	0.00	224.77	224.77	0.00	0.00	0.00
5,300.00	0.00	0.00	5,288.28	0.00	224.77	224.77	0.00	0.00	0.00
5,400.00	0.00	0.00	5,388.28	0.00	224.77	224.77	0.00	0.00	0.00
5,500.00	0.00	0.00	5,488.28	0.00	224.77	224.77	0.00	0.00	0.00
5,600.00	0.00	0.00	5,588.28	0.00	224.77	224.77	0.00	0.00	0.00
5,700.00	0.00	0.00	5,688.28	0.00	224.77	224.77	0.00	0.00	0.00
5,800.00	0.00	0.00	5,788.28	0.00	224.77	224.77	0.00	0.00	0.00
5,900.00	0.00	0.00	5,888.28	0.00	224.77	224.77	0.00	0.00	0.00
6,000.00	0.00	0.00	5,988.28	0.00	224.77	224.77	0.00	0.00	0.00
6,100.00	0.00	0.00	6,088.28	0.00	224.77	224.77	0.00	0.00	0.00
6,200.00	0.00	0.00	6,188.28	0.00	224.77	224.77	0.00	0.00	0.00
6,300.00	0.00	0.00	6,288.28	0.00	224.77	224.77	0.00	0.00	0.00
6,400.00	0.00	0.00	6,388.28	0.00	224.77	224.77	0.00	0.00	0.00
6,500.00	0.00	0.00	6,488.28	0.00	224.77	224.77	0.00	0.00	0.00
6,600.00	0.00	0.00	6,588.28	0.00	224.77	224.77	0.00	0.00	0.00
6,700.00	0.00	0.00	6,688.28	0.00	224.77	224.77	0.00	0.00	0.00
6,800.00	0.00	0.00	6,788.28	0.00	224.77	224.77	0.00	0.00	0.00
6,900.00	0.00	0.00	6,888.28	0.00	224.77	224.77	0.00	0.00	0.00
7,000.00	0.00	0.00	6,988.28	0.00	224.77	224.77	0.00	0.00	0.00
7,100.00	0.00	0.00	7,088.28	0.00	224.77	224.77	0.00	0.00	0.00
7,200.00	0.00	0.00	7,188.28	0.00	224.77	224.77	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.28	0.00	224.77	224.77	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.28	0.00	224.77	224.77	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.28	0.00	224.77	224.77	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.28	0.00	224.77	224.77	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.28	0.00	224.77	224.77	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.28	0.00	224.77	224.77	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.28	0.00	224.77	224.77	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.28	0.00	224.77	224.77	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.28	0.00	224.77	224.77	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.28	0.00	224.77	224.77	0.00	0.00	0.00
9 5/8"									
8,300.00	0.00	0.00	8,288.28	0.00	224.77	224.77	0.00	0.00	0.00
8,350.00	0.00	0.00	8,338.28	0.00	224.77	224.77	0.00	0.00	0.00
7"									
8,400.00	0.00	0.00	8,388.28	0.00	224.77	224.77	0.00	0.00	0.00
8,500.00	0.00	0.00	8,488.28	0.00	224.77	224.77	0.00	0.00	0.00
8,600.00	0.00	0.00	8,588.28	0.00	224.77	224.77	0.00	0.00	0.00
8,700.00	0.00	0.00	8,688.28	0.00	224.77	224.77	0.00	0.00	0.00
8,800.00	0.00	0.00	8,788.28	0.00	224.77	224.77	0.00	0.00	0.00
8,900.00	0.00	0.00	8,888.28	0.00	224.77	224.77	0.00	0.00	0.00
9,000.00	0.00	0.00	8,988.28	0.00	224.77	224.77	0.00	0.00	0.00
9,100.00	0.00	0.00	9,088.28	0.00	224.77	224.77	0.00	0.00	0.00
9,200.00	0.00	0.00	9,188.28	0.00	224.77	224.77	0.00	0.00	0.00
9,211.73	0.00	0.00	9,200.00	0.00	224.77	224.77	0.00	0.00	0.00

Scout Downhole Inc.
Planning Report



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Monument AGI D#2
Company:	Cambrian Management	TVD Reference:	WELL @ 3584.00ft (Original Well Elev)
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Well:	Monument AGI D#2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Casing Points					
	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
	1,050.00	1,050.00	13 3/8"	13.375	17.500
	8,200.00	8,188.28	9 5/8"	9.625	12.250
	8,350.00	8,338.28	7"	7.000	8.750

Operator Field Cty/Blk/Par Well Name Rig				Cambrian Management			Job Number:		0			Minimum Curvature	
				Section 36 T 19S R. 36E			Magnetic Decl.:		Proposed Azimuth		85.00		
				Lea			Grid Corr.:		Depth Reference		RKB		
				Monument AGI 1R			Total Survey Corr.:		Tie Into		Surface		
							Target Info:						
No.	Tool Type	Survey Depth (ft)	Inc (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft) E/W (ft)		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')	Remarks
0	Tie In	0	0.00	85.00		0.00							
1	MWD	260	0.75	85.00	260	259.99	1.70	0.15	1.70	0.29	0.3	0.0	
2	MWD	543	1.00	85.00	283	542.96	6.02	0.52	6.00	0.09	0.1	0.0	
3	MWD	764	4.20	85.00	221	763.70	16.05	1.40	15.99	1.45	1.4	0.0	
4	MWD	898	6.40	85.00	134	897.12	28.42	2.48	28.32	1.64	1.6	0.0	
5	MWD	921	5.80	85.00	23	919.99	30.87	2.69	30.75	2.61	-2.6	0.0	
6	MWD	952	6.40	85.00	31	950.82	34.16	2.98	34.03	1.94	1.9	0.0	
7	MWD	995	6.10	85.00	43	993.56	38.84	3.39	38.70	0.70	-0.7	0.0	
8	MWD	1084	5.75	85.00	89	1082.08	48.03	4.19	47.85	0.39	-0.4	0.0	
9	MWD	1241	4.25	85.00	157	1238.48	61.71	5.38	61.48	0.96	-1.0	0.0	
10	MWD	1367	3.50	85.00	126	1364.19	70.23	6.12	69.96	0.60	-0.6	0.0	
11	MWD	1587	2.30	85.00	220	1583.91	81.36	7.09	81.05	0.55	-0.5	0.0	
12	MWD	1807	1.40	85.00	220	1803.79	88.46	7.71	88.12	0.41	-0.4	0.0	
13	MWD	2247	1.80	85.00	440	2243.62	100.75	8.78	100.36	0.09	0.1	0.0	
14	MWD	2382	1.00	85.00	135	2378.58	104.05	9.07	103.65	0.59	-0.6	0.0	
15	MWD	2689	0.10	85.00	307	2685.56	106.99	9.32	106.58	0.29	-0.3	0.0	
16	MWD	2877	0.40	85.00	188	2873.56	107.81	9.40	107.40	0.16	0.2	0.0	
17	MWD	3097	0.90	85.00	220	3093.54	110.31	9.61	109.89	0.23	0.2	0.0	
18	MWD	3286	1.10	85.00	189	3282.51	113.61	9.90	113.17	0.11	0.1	0.0	
19	MWD	3540	0.20	85.00	254	3536.49	116.49	10.15	116.04	0.35	-0.4	0.0	
20	MWD	3729	1.30	85.00	189	3725.48	118.96	10.37	118.51	0.58	0.6	0.0	
21	MWD	3919	1.10	85.00	190	3915.43	122.94	10.72	122.47	0.11	-0.1	0.0	
22	MWD	4173	1.00	85.00	254	4169.39	127.60	11.12	127.11	0.04	0.0	0.0	
23	MWD	4711	0.60	85.00	538	4707.34	135.11	11.78	134.59	0.07	-0.1	0.0	
24	MWD	5250	0.90	85.00	539	5246.29	142.16	12.39	141.62	0.06	0.1	0.0	
25	MWD	5503	0.50	85.00	253	5499.27	145.25	12.66	144.70	0.16	-0.2	0.0	
26	MWD	5756	1.20	85.00	253	5752.24	149.01	12.99	148.44	0.28	0.3	0.0	
27	MWD	6010	1.00	85.00	254	6006.19	153.88	13.41	153.30	0.08	-0.1	0.0	
28	MWD	6485	1.10	85.00	475	6481.11	162.59	14.17	161.97	0.02	0.0	0.0	
29	MWD	7275	1.40	85.00	790	7270.93	179.82	15.67	179.14	0.04	0.0	0.0	

Operator				Cambrian Management			Job Number:		0			Minimum Curvature	
Field				Section 36 T 19S R. 36E			Magnetic Decl.:						
Cty/Blk/Par				Lea			Grid Corr.:		Proposed Azimuth 85.00				
Well Name				Monument AGI 1R			Total Survey Corr.:		Depth Reference RKB				
Rig							Target Info:		Tie Into Surface				
No.	Tool Type	Survey Depth (ft)	Inc (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')	Remarks
30	MWD	8816	2.10	85.00	1541	8811.20	226.88	19.77	226.02	0.05	0.0	0.0	
31	MWD	9203	2.10	85.00	387	9197.94	241.06	21.01	240.14	0.00	0.0	0.0	
32	MWD												
33	MWD												
34	MWD												
35	MWD												
36	MWD												
37	MWD												
38	MWD												
39	MWD												
40	MWD												
41	MWD												
42	MWD												
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59	MWD												