

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

District II
811 S. First Street, 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 Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

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

☒ AMENDED REPORT
~~AS DRILLED~~

AMOC

WELL LOCATION AND ACREAGE DEDICATION PLAT

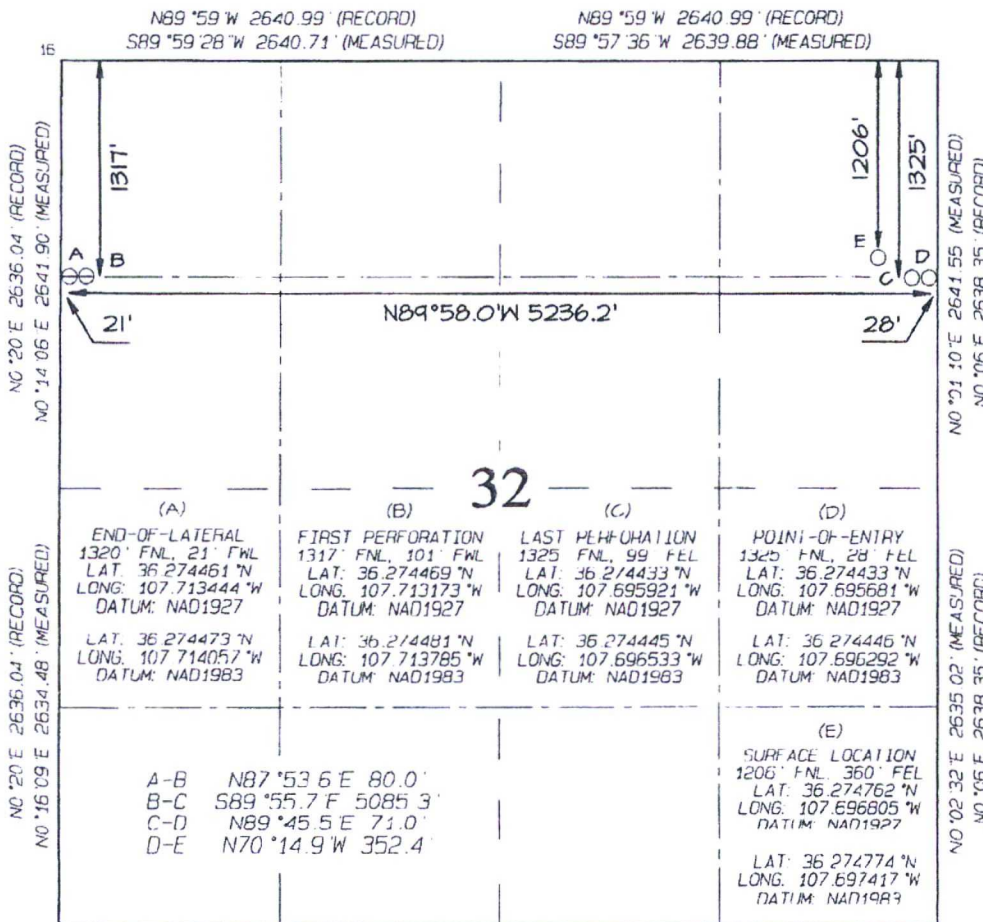
JUL 19 2019

1 API Number 30-045-35912		2 Pool Code 47540		3 Pool Name NAGEEZI GALLUP DISTRICT III	
4 Property Code 322997		5 Property Name STATE 2408-32A COM			6 Well Number 2H
7 OGRID No. 289408		8 Operator Name LOGOS OPERATING, LLC			9 Elevation 7002'

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	32	24N	8W		1206	NORTH	360	EAST	SAN JUAN

11 Bottom 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
D	32	24N	8W		1320	NORTH	21	WEST	SAN JUAN
12 Dedicated Acres 320.0 Acres - (N/2)					13 Joint or Infill INFILL		14 Consolidation Code		15 Order No.

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



S89°58'24"W 2650.23' (MEASURED)
N89°57'W 2651.55' (RECORD)

S89°59'00"W 2650.73' (MEASURED)
N89°57'W 2651.55' (RECORD)

17 OPERATOR 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.	
Signature <i>Tamra Sessions</i>	Date 7-5-19
Printed Name Tamra Sessions	
E-mail Address tsessions@logosresourcesllc.com	
18 SURVEYOR 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.	
Date Revised: JULY 2, 2019	
Date of Survey: MARCH 8, 2019	
Signature and Seal of Professional Surveyor	
	
JASON C. EDWARDS	
Certificate Number 15269	



Logos Operating LLC

San Juan, NM NAD83

State 2408-32A

State 2408-32A 2H

OH

Design: OH

Survey Report - Geographic

18 June, 2019



www.scientificdrilling.com



Scientific Drilling, Intl
Survey Report - Geographic



Company: Logos Operating LLC
Project: San Juan, NM NAD83
Site: State 2408-32A
Well: State 2408-32A 2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well State 2408-32A 2H
TVD Reference: GL 7002' & RKB 25' @ 7027.00usft (Aztec 1000)
MD Reference: GL 7002' & RKB 25' @ 7027.00usft (Aztec 1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Project	San Juan, NM NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	State 2408-32A				
Site Position:		Northing:	1,919,371.54 usft	Latitude:	36.2748470
From:	Lat/Long	Easting:	2,763,167.91 usft	Longitude:	-107.6973700
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.08 °

Well	State 2408-32A 2H					
Well Position	+N/-S	0.00 usft	Northing:	1,919,344.95 usft	Latitude:	36.2747740
	+E/-W	0.00 usft	Easting:	2,763,154.09 usft	Longitude:	-107.6974170
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	7,002.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/28/2019	8.78	62.83	49,481

Design	OH				
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	268.713	

Survey Program	Date 6/18/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
442.00	5,337.00	Survey #1 - Surface MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	
5,384.00	6,337.00	Survey #2 - Curve MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	
6,430.00	11,465.00	Survey #3 - Lateral MWD Survey (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	1,919,344.95	2,763,154.09	36.2747740	-107.6974170	
442.00	0.68	51.910	441.99	1.62	2.06	1,919,346.57	2,763,156.15	36.2747784	-107.6974100	
First SDI Surface MWD Survey										
537.00	0.69	40.450	536.98	2.40	2.88	1,919,347.36	2,763,156.97	36.2747806	-107.6974073	
631.00	1.05	87.030	630.97	2.88	4.11	1,919,347.83	2,763,158.19	36.2747819	-107.6974031	
726.00	1.01	78.570	725.96	3.09	5.80	1,919,348.05	2,763,159.88	36.2747825	-107.6973974	
821.00	0.96	88.240	820.94	3.28	7.41	1,919,348.24	2,763,161.50	36.2747830	-107.6973919	
916.00	0.98	59.230	915.93	3.72	8.91	1,919,348.68	2,763,162.99	36.2747842	-107.6973868	
1,010.00	1.05	49.070	1,009.92	4.69	10.25	1,919,349.66	2,763,164.33	36.2747869	-107.6973823	
1,104.00	1.23	47.100	1,103.90	5.94	11.64	1,919,350.91	2,763,165.72	36.2747903	-107.6973776	



Scientific Drilling, Intl
Survey Report - Geographic



Company: Logos Operating LLC
Project: San Juan, NM NAD83
Site: State 2408-32A
Well: State 2408-32A 2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well State 2408-32A 2H
TVD Reference: GL 7002' & RKB 25' @ 7027.00usft (Aztec 1000)
MD Reference: GL 7002' & RKB 25' @ 7027.00usft (Aztec 1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,197.00	1.04	169.130	1,196.89	5.80	12.53	1,919,350.76	2,763,166.61	36.2747899	-107.6973745
1,291.00	1.15	166.360	1,290.87	4.04	12.91	1,919,349.01	2,763,167.00	36.2747851	-107.6973732
1,384.00	2.59	120.520	1,383.82	2.07	14.94	1,919,347.04	2,763,169.03	36.2747797	-107.6973664
1,477.00	3.69	109.050	1,476.68	0.02	19.58	1,919,345.00	2,763,173.67	36.2747740	-107.6973506
1,571.00	4.46	101.780	1,570.45	-1.71	26.02	1,919,343.28	2,763,180.11	36.2747693	-107.6973288
1,664.00	5.76	94.880	1,663.07	-2.85	34.21	1,919,342.15	2,763,188.30	36.2747662	-107.6973010
1,758.00	7.26	93.430	1,756.47	-3.60	44.84	1,919,341.41	2,763,198.93	36.2747641	-107.6972649
1,851.00	7.78	98.070	1,848.67	-4.84	56.94	1,919,340.19	2,763,211.03	36.2747607	-107.6972239
1,944.00	10.95	97.410	1,940.42	-6.86	71.93	1,919,338.19	2,763,226.03	36.2747551	-107.6971730
2,038.00	12.34	96.130	2,032.48	-9.09	90.77	1,919,335.99	2,763,244.88	36.2747490	-107.6971091
2,131.00	14.28	96.750	2,122.98	-11.50	112.05	1,919,333.61	2,763,266.15	36.2747424	-107.6970369
2,224.00	15.56	90.610	2,212.84	-12.98	135.91	1,919,332.17	2,763,280.02	36.2747383	-107.6969560
2,318.00	17.10	93.520	2,303.05	-13.96	162.31	1,919,331.22	2,763,316.42	36.2747356	-107.6968664
2,411.00	19.73	94.950	2,391.28	-16.15	191.60	1,919,329.07	2,763,345.72	36.2747296	-107.6967670
2,505.00	21.14	95.010	2,479.36	-19.00	224.30	1,919,326.26	2,763,378.42	36.2747218	-107.6966561
2,598.00	20.71	93.230	2,566.23	-21.39	257.42	1,919,323.92	2,763,411.55	36.2747152	-107.6965437
2,691.00	22.27	91.270	2,652.76	-22.71	291.46	1,919,322.65	2,763,445.59	36.2747116	-107.6964282
2,784.00	22.24	90.670	2,738.84	-23.31	326.68	1,919,322.10	2,763,480.80	36.2747099	-107.6963087
2,878.00	22.85	94.830	2,825.66	-25.05	362.66	1,919,320.41	2,763,516.78	36.2747051	-107.6961867
2,971.00	22.84	95.080	2,911.36	-28.17	398.63	1,919,317.34	2,763,552.76	36.2746966	-107.6960647
3,066.00	21.40	94.030	2,999.37	-31.02	434.28	1,919,314.54	2,763,588.42	36.2746887	-107.6959437
3,160.00	21.36	95.820	3,086.90	-33.96	468.42	1,919,311.65	2,763,622.56	36.2746807	-107.6958279
3,255.00	22.14	96.890	3,175.14	-37.87	503.40	1,919,307.79	2,763,657.55	36.2746699	-107.6957092
3,350.00	22.53	95.420	3,263.01	-41.73	539.30	1,919,303.98	2,763,693.45	36.2746593	-107.6955874
3,444.00	21.25	95.010	3,350.23	-44.92	574.20	1,919,300.84	2,763,728.35	36.2746506	-107.6954690
3,539.00	23.49	95.530	3,438.08	-48.25	610.20	1,919,297.56	2,763,764.35	36.2746414	-107.6953469
3,634.00	22.97	94.760	3,525.38	-51.61	647.51	1,919,294.25	2,763,801.68	36.2746322	-107.6952203
3,729.00	22.18	94.010	3,613.10	-54.40	683.88	1,919,291.51	2,763,838.04	36.2746245	-107.6950969
3,823.00	23.40	94.690	3,699.76	-57.17	720.18	1,919,288.79	2,763,874.35	36.2746169	-107.6949738
3,918.00	22.35	94.630	3,787.28	-60.17	756.99	1,919,285.84	2,763,911.16	36.2746087	-107.6948489
4,013.00	21.47	94.580	3,875.42	-63.02	792.32	1,919,283.05	2,763,946.50	36.2746008	-107.6947290
4,107.00	22.46	92.830	3,962.60	-65.28	827.40	1,919,280.83	2,763,981.59	36.2745946	-107.6946100
4,201.00	22.64	92.820	4,049.41	-67.05	863.41	1,919,279.11	2,764,017.59	36.2745897	-107.6944878
4,296.00	20.85	94.970	4,137.65	-69.42	898.52	1,919,276.79	2,764,052.70	36.2745832	-107.6943687
4,390.00	21.61	99.020	4,225.27	-73.58	932.28	1,919,272.68	2,764,086.47	36.2745718	-107.6942542
4,484.00	23.83	97.860	4,311.97	-78.89	968.19	1,919,267.42	2,764,122.39	36.2745572	-107.6941324
4,579.00	24.01	98.140	4,398.82	-84.26	1,006.33	1,919,262.11	2,764,160.54	36.2745425	-107.6940030
4,674.00	21.16	100.280	4,486.52	-90.05	1,042.35	1,919,256.36	2,764,196.56	36.2745265	-107.6938808
4,721.00	20.23	99.880	4,530.49	-92.96	1,058.70	1,919,253.48	2,764,212.92	36.2745186	-107.6938253
4,768.00	17.68	94.990	4,574.94	-94.98	1,073.82	1,919,251.48	2,764,228.04	36.2745130	-107.6937740
4,815.00	14.09	93.530	4,620.14	-95.95	1,086.64	1,919,250.53	2,764,240.87	36.2745103	-107.6937305
4,863.00	10.96	94.310	4,666.99	-96.65	1,097.03	1,919,249.84	2,764,251.25	36.2745084	-107.6936953
4,910.00	7.88	102.570	4,713.35	-97.69	1,104.63	1,919,248.81	2,764,258.86	36.2745056	-107.6936695
4,958.00	4.47	103.670	4,761.07	-98.85	1,109.66	1,919,247.66	2,764,263.89	36.2745024	-107.6936524
5,005.00	0.36	349.380	4,808.02	-99.14	1,111.41	1,919,247.38	2,764,265.64	36.2745016	-107.6936465
5,053.00	4.59	272.500	4,855.97	-98.90	1,109.46	1,919,247.60	2,764,263.69	36.2745022	-107.6936531
5,100.00	8.44	274.890	4,902.66	-98.53	1,104.15	1,919,247.97	2,764,258.38	36.2745033	-107.6936711
5,148.00	11.50	279.740	4,949.93	-87.42	1,095.92	1,919,248.07	2,764,250.15	36.2745063	-107.6936990
5,195.00	14.12	275.410	4,995.75	-96.08	1,085.59	1,919,250.39	2,764,239.82	36.2745100	-107.6937341
5,242.00	17.12	269.450	5,041.02	-95.61	1,072.98	1,919,250.85	2,764,227.19	36.2745113	-107.6937769
5,289.00	18.94	267.660	5,085.71	-95.99	1,058.42	1,919,250.45	2,764,212.65	36.2745102	-107.6938262
5,337.00	21.82	264.360	5,130.70	-97.18	1,041.76	1,919,249.23	2,764,195.99	36.2745070	-107.6938828
Last SDI Surface MWD Survey									
5,384.00	26.25	266.460	5,173.61	-98.68	1,022.68	1,919,247.70	2,764,176.91	36.2745028	-107.6939475
First SDI Curve MWD Survey									



Scientific Drilling, Intl
Survey Report - Geographic



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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,432.00	31.04	269.290	5,215.73	-99.49	999.70	1,919,246.86	2,764,153.93	36.2745006	-107.6940255
5,479.00	34.23	269.440	5,255.30	-99.77	974.36	1,919,246.55	2,764,128.59	36.2744998	-107.6941114
5,526.00	36.96	268.750	5,293.52	-100.21	947.01	1,919,246.07	2,764,101.24	36.2744986	-107.6942042
5,573.00	40.43	268.290	5,330.19	-100.97	917.64	1,919,245.27	2,764,071.87	36.2744966	-107.6943039
5,621.00	45.15	268.420	5,365.41	-101.91	885.05	1,919,244.29	2,764,039.29	36.2744940	-107.6944144
5,668.00	49.33	266.580	5,397.31	-103.43	850.59	1,919,242.71	2,764,004.83	36.2744898	-107.6945313
5,716.00	52.82	262.830	5,427.47	-106.91	813.43	1,919,239.19	2,763,967.67	36.2744803	-107.6946574
5,763.00	57.47	261.770	5,454.33	-112.08	775.22	1,919,233.96	2,763,929.47	36.2744661	-107.6947870
5,810.00	61.76	264.230	5,478.10	-117.00	734.99	1,919,228.98	2,763,889.25	36.2744525	-107.6949235
5,857.00	66.31	265.020	5,498.67	-120.95	692.93	1,919,224.97	2,763,847.19	36.2744417	-107.6950662
5,905.00	71.57	266.610	5,515.91	-124.21	648.27	1,919,221.65	2,763,802.54	36.2744327	-107.6952177
5,952.00	77.16	268.030	5,528.58	-126.32	603.08	1,919,219.48	2,763,757.35	36.2744270	-107.6953710
5,999.00	79.21	271.190	5,538.20	-126.63	557.09	1,919,219.11	2,763,711.36	36.2744261	-107.6955271
6,046.00	81.29	272.740	5,546.16	-125.04	510.80	1,919,220.63	2,763,665.06	36.2744305	-107.6956841
6,094.00	84.00	272.690	5,552.30	-122.78	463.25	1,919,222.82	2,763,617.51	36.2744367	-107.6958454
6,141.00	86.47	271.930	5,556.21	-120.89	416.45	1,919,224.84	2,763,570.71	36.2744419	-107.6960042
6,188.00	87.88	270.810	5,558.53	-119.77	369.53	1,919,225.70	2,763,523.79	36.2744449	-107.6961634
6,242.00	88.56	270.010	5,560.20	-119.39	315.55	1,919,226.01	2,763,469.81	36.2744460	-107.6963465
6,297.00	88.98	269.338	5,561.38	-119.70	260.57	1,919,225.62	2,763,414.83	36.2744452	-107.6965330
Last Perf @ 6297' MD - 36.2744462, -107.6965330									
6,337.00	89.29	268.850	5,561.98	-120.33	220.58	1,919,224.93	2,763,374.84	36.2744434	-107.6966687
Last SDI Curve MWD Survey									
6,430.00	88.22	269.230	5,564.01	-121.89	127.61	1,919,223.24	2,763,281.88	36.2744391	-107.6969841
First SDI Lateral MWD Survey									
6,524.00	87.92	268.700	5,567.17	-123.59	33.68	1,919,221.41	2,763,187.95	36.2744345	-107.6973028
6,617.00	90.71	270.150	5,588.28	-124.52	-59.29	1,919,220.35	2,763,094.97	36.2744319	-107.6976182
6,710.00	90.87	270.660	5,567.00	-123.86	-152.28	1,919,220.88	2,763,001.98	36.2744337	-107.6979337
6,804.00	91.44	270.730	5,565.11	-122.72	-246.26	1,919,221.88	2,762,908.01	36.2744368	-107.6982525
6,897.00	90.20	271.390	5,563.78	-121.00	-339.23	1,919,223.47	2,762,815.03	36.2744416	-107.6985679
6,990.00	90.13	271.320	5,563.51	-118.80	-432.20	1,919,225.54	2,762,722.06	36.2744476	-107.6988833
7,084.00	90.50	271.080	5,562.99	-116.83	-526.18	1,919,227.38	2,762,628.08	36.2744530	-107.6992022
7,177.00	88.99	269.860	5,563.40	-116.07	-619.17	1,919,228.01	2,762,535.08	36.2744551	-107.6995176
7,270.00	92.12	269.540	5,562.50	-116.56	-712.15	1,919,227.39	2,762,442.10	36.2744538	-107.6998331
7,364.00	91.31	268.540	5,559.69	-118.13	-806.10	1,919,225.69	2,762,348.16	36.2744494	-107.7001518
7,457.00	91.24	268.080	5,557.62	-120.87	-899.03	1,919,222.82	2,762,255.23	36.2744419	-107.7004671
7,550.00	90.71	267.260	5,556.04	-124.65	-991.94	1,919,218.90	2,762,162.33	36.2744315	-107.7007823
7,644.00	90.30	268.290	5,555.21	-128.30	-1,085.86	1,919,215.12	2,762,068.41	36.2744215	-107.7011009
7,737.00	90.91	269.240	5,554.23	-130.31	-1,178.84	1,919,212.99	2,761,975.44	36.2744159	-107.7014164
7,832.00	92.55	271.330	5,551.36	-129.84	-1,273.78	1,919,213.33	2,761,880.49	36.2744172	-107.7017385
7,927.00	92.89	271.410	5,546.85	-127.57	-1,368.65	1,919,215.46	2,761,785.62	36.2744234	-107.7020603
8,021.00	91.58	271.400	5,543.19	-125.26	-1,462.55	1,919,217.63	2,761,691.72	36.2744298	-107.7023789
8,116.00	91.18	271.170	5,540.90	-123.13	-1,557.50	1,919,219.63	2,761,596.77	36.2744356	-107.7027010
8,211.00	90.67	270.390	5,539.36	-121.84	-1,652.47	1,919,220.79	2,761,501.79	36.2744391	-107.7030232
8,306.00	90.91	270.040	5,538.05	-121.49	-1,747.46	1,919,221.01	2,761,406.80	36.2744401	-107.7033455
8,400.00	90.30	269.350	5,537.06	-121.99	-1,841.46	1,919,220.38	2,761,312.81	36.2744387	-107.7036644
8,495.00	90.50	271.080	5,536.40	-121.63	-1,936.45	1,919,220.60	2,761,217.82	36.2744397	-107.7039866
8,590.00	91.75	269.880	5,534.53	-120.83	-2,031.42	1,919,221.27	2,761,122.84	36.2744418	-107.7043088
8,684.00	90.50	268.650	5,532.69	-122.04	-2,125.39	1,919,219.93	2,761,028.87	36.2744385	-107.7046276
8,779.00	90.84	269.420	5,531.58	-123.64	-2,220.37	1,919,218.20	2,760,933.89	36.2744341	-107.7049499
8,874.00	90.84	268.740	5,530.18	-125.16	-2,315.35	1,919,216.54	2,760,838.92	36.2744299	-107.7052721
8,969.00	91.71	270.310	5,528.07	-125.95	-2,410.32	1,919,215.62	2,760,743.95	36.2744277	-107.7055943
9,063.00	90.30	268.790	5,526.42	-126.69	-2,504.30	1,919,214.75	2,760,649.97	36.2744256	-107.7059131
9,158.00	92.19	269.260	5,524.36	-128.31	-2,599.26	1,919,213.00	2,760,555.02	36.2744212	-107.7062353
9,253.00	90.07	267.190	5,522.48	-131.25	-2,694.18	1,919,209.92	2,760,460.10	36.2744131	-107.7065573
9,347.00	91.61	267.980	5,521.11	-135.21	-2,788.09	1,919,205.83	2,760,366.20	36.2744022	-107.7068759



Scientific Drilling, Intl
Survey Report - Geographic



Company: Logos Operating LLC
Project: San Juan, NM NAD83
Site: State 2408-32A
Well: State 2408-32A 2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well State 2408-32A 2H
TVD Reference: GL 7002' & RKB 25' @ 7027.00usft (Aztec 1000)
MD Reference: GL 7002' & RKB 25' @ 7027.00usft (Aztec 1000)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Grand Junction District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,442.00	90.24	269.460	5,519.57	-137.33	-2,883.04	1,919,203.57	2,760,271.24	36.2743963	-107.7071980
9,536.00	90.24	268.500	5,519.18	-139.00	-2,977.03	1,919,201.77	2,760,177.26	36.2743917	-107.7075169
9,630.00	90.87	271.300	5,518.27	-139.17	-3,071.01	1,919,201.47	2,760,083.28	36.2743912	-107.7078357
9,725.00	89.29	270.050	5,518.13	-138.05	-3,166.00	1,919,202.46	2,759,988.29	36.2743943	-107.7081580
9,819.00	91.17	271.380	5,517.76	-136.88	-3,259.99	1,919,203.50	2,759,894.30	36.2743975	-107.7084768
9,914.00	89.40	269.730	5,517.28	-135.96	-3,354.97	1,919,204.29	2,759,799.31	36.2744000	-107.7087991
10,008.00	89.53	272.620	5,518.16	-134.03	-3,448.94	1,919,206.08	2,759,705.34	36.2744052	-107.7091179
10,103.00	89.13	273.380	5,519.27	-129.06	-3,543.80	1,919,210.92	2,759,610.47	36.2744188	-107.7094397
10,198.00	89.16	273.420	5,520.69	-123.42	-3,638.63	1,919,216.42	2,759,515.64	36.2744343	-107.7097614
10,293.00	90.07	273.050	5,521.33	-118.06	-3,733.47	1,919,221.65	2,759,420.79	36.2744490	-107.7100832
10,387.00	90.34	273.000	5,520.99	-113.10	-3,827.34	1,919,226.48	2,759,326.92	36.2744626	-107.7104017
10,482.00	91.28	272.940	5,519.65	-108.18	-3,922.20	1,919,231.27	2,759,232.05	36.2744761	-107.7107235
10,577.00	91.58	272.560	5,517.28	-103.62	-4,017.06	1,919,235.69	2,759,137.18	36.2744885	-107.7110453
10,672.00	90.47	271.810	5,515.58	-100.00	-4,111.97	1,919,239.18	2,759,042.26	36.2744984	-107.7113673
10,766.00	89.23	269.900	5,515.83	-98.60	-4,205.96	1,919,240.45	2,758,948.28	36.2745023	-107.7116862
10,861.00	88.52	269.180	5,517.69	-99.36	-4,300.94	1,919,239.55	2,758,853.30	36.2745001	-107.7120084
10,956.00	91.75	270.920	5,517.47	-99.28	-4,395.92	1,919,239.50	2,758,758.32	36.2745003	-107.7123306
11,050.00	91.51	270.320	5,514.79	-98.26	-4,489.87	1,919,240.39	2,758,664.36	36.2745031	-107.7126494
11,145.00	89.90	268.710	5,513.62	-99.07	-4,584.86	1,919,239.45	2,758,569.38	36.2745008	-107.7129716
11,240.00	88.76	268.300	5,514.74	-101.55	-4,679.82	1,919,236.84	2,758,474.42	36.2744940	-107.7132938
11,334.00	88.79	268.080	5,516.75	-104.51	-4,773.75	1,919,233.74	2,758,380.49	36.2744858	-107.7136124
11,385.00	88.96	268.012	5,517.75	-106.25	-4,824.71	1,919,231.93	2,758,329.54	36.2744810	-107.7137853
First Perf @ 11,385' MD - 36.2744810, -107.7137853									
11,417.00	89.06	267.970	5,518.30	-107.37	-4,856.68	1,919,230.76	2,758,297.56	36.2744779	-107.7138938
Last SDI Lateral MWD Survey									
11,465.00	89.06	267.970	5,519.09	-109.07	-4,904.65	1,919,228.99	2,758,249.60	36.2744732	-107.7140565
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
442.00	441.99	1.62	2.06	First SDI Surface MWD Survey
5,337.00	5,130.70	-97.18	1,041.76	Last SDI Surface MWD Survey
5,384.00	5,173.61	-98.68	1,022.68	First SDI Curve MWD Survey
6,297.00	5,561.38	-119.70	260.57	Last Perf @ 6297' MD
6,297.00	5,561.38	-119.70	260.57	36.2744452, -107.6965330
6,337.00	5,561.98	-120.33	220.58	Last SDI Curve MWD Survey
6,430.00	5,564.01	-121.89	127.81	First SDI Lateral MWD Survey
11,385.00	5,517.75	-106.25	-4,824.71	First Perf @ 11,385' MD
11,385.00	5,517.75	-106.25	-4,824.71	36.2744810, -107.7137853
11,417.00	5,518.30	-107.37	-4,856.68	Last SDI Lateral MWD Survey
11,465.00	5,519.09	-109.07	-4,904.65	Projection to TD

Checked By: _____ Approved By: _____ Date: _____