

District I
1625 N French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax (505) 393-0720

District II
8110 First St., Artesia, NM 88210
Phone (505) 748-1233 Fax (505) 743-0720

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
AS-DRILLED

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
NMOC

JUN 11 2018

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35851	² Pool Code 97232	³ Pool Name Mancos Gas	DISTRICT III
⁴ Property Code 319806	⁵ Property Name Northeast Blanco Unit 605 Com		⁶ Well Number 1H
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company		⁹ Elevation 6471

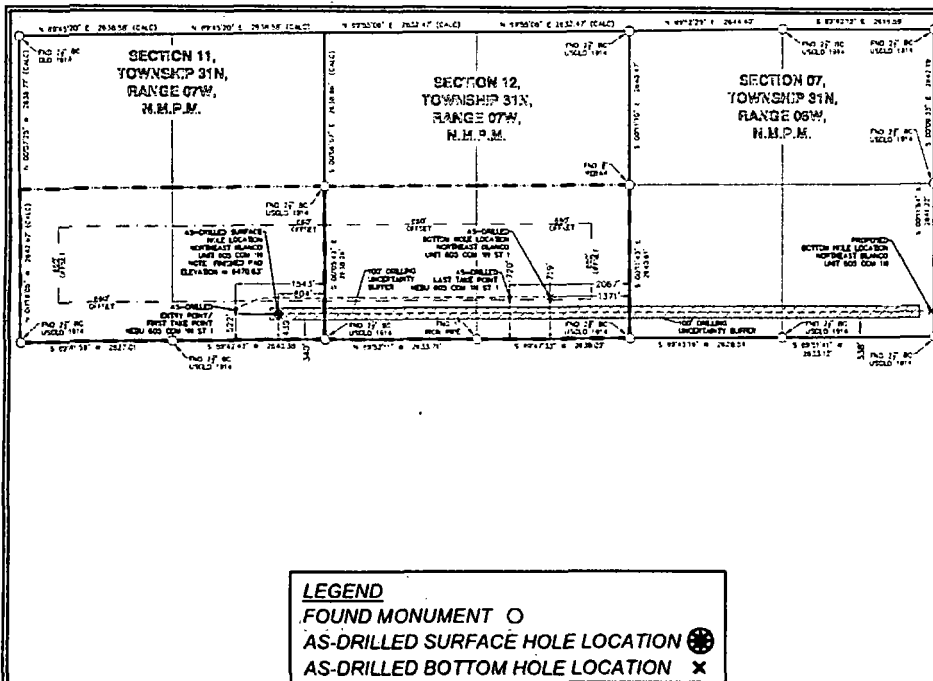
Surface Location

UL of lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	31N	07W		439	South	804	East	San Juan

Bottom Hole Location If Different From Surface

UL of lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	12	31N	07W		719	South	1371	East	San Juan

¹² Dedicated Acres 640.00 - S/2 - SEC. 11, T31N, R07W S/2 - SEC. 12, T31N, R07W	¹³ Joint or 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.			



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 neither owns a working interest or a mineral interest in the land underlying the proposed bottom hole location nor 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.

RR Marshall 06/05/2018
Signature Date

Randall Marshall

Printed Name

randall.marshall@bp.com

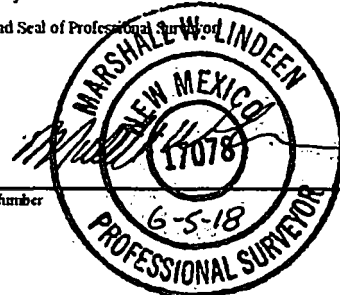
E-mail Address

SURVEYOR CERTIFICATION

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

6-13-17
Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number
17078

NEBU 605 COM 1H	NWZ NAD'83	NAD'83	TIES
AS-DRILLED SURFACE HOLE LOCATION (SHL)	N (Y) = 2,149,971.97' E (X) = 2,810,586.13'	LAT. = 36.90798886°N LON. = 107.53406370°W	FSL = 439' FEL = 804'
AS-DRILLED ENTRY POINT (EP)/FIRST TAKE POINT (FTP) ST 1	N (Y) = 2,150,050.79' E (X) = 2,809,847.77'	LAT. = 36.90821170°N LON. = 107.53658834°W	FSL = 522' FEL = 1543'
AS-DRILLED LAST TAKE POINT (LTP) ST 1	N (Y) = 2,150,252.55' E (X) = 2,814,594.48'	LAT. = 36.90872422°N LON. = 107.52035041°W	FSL = 720' FEL = 2067'
AS-DRILLED BOTTOM HOLE LOCATION (BHL) ST 1	N (Y) = 2,150,254.28' E (X) = 2,815,290.96'	LAT. = 36.90872267°N LON. = 107.51796813°W	FSL = 719' FEL = 1371'



Scientific Drilling

Directional Survey Certification

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

Operator	B.P.
Well Name & No.	NEBU 605 1H ST1
County & State	San Juan, NM
SDI Job No.	OP.009121
Rig	Aztec 1000

111 13181510
DISTRICT 111
JUN 15 2018
HARD

I, Janie Collins, having personal knowledge of all the facts, hereby
certify that the attached directional survey run from a measured depth of 6,079 feet to a
measured depth of 12,473 feet is true and correct as determined from all available records.

Signature

7-May-18

Date

Janie Collins

Colorado District Well Planner
Scientific Drilling International



B.P.

San Juan County, NM NAD83
NEBU 605 Pad
NEBU 605 1H

ST1

Design: ST1

Standard Survey Report

07 May, 2018

NMOCB
JUN 15 2018
DISTRICT III

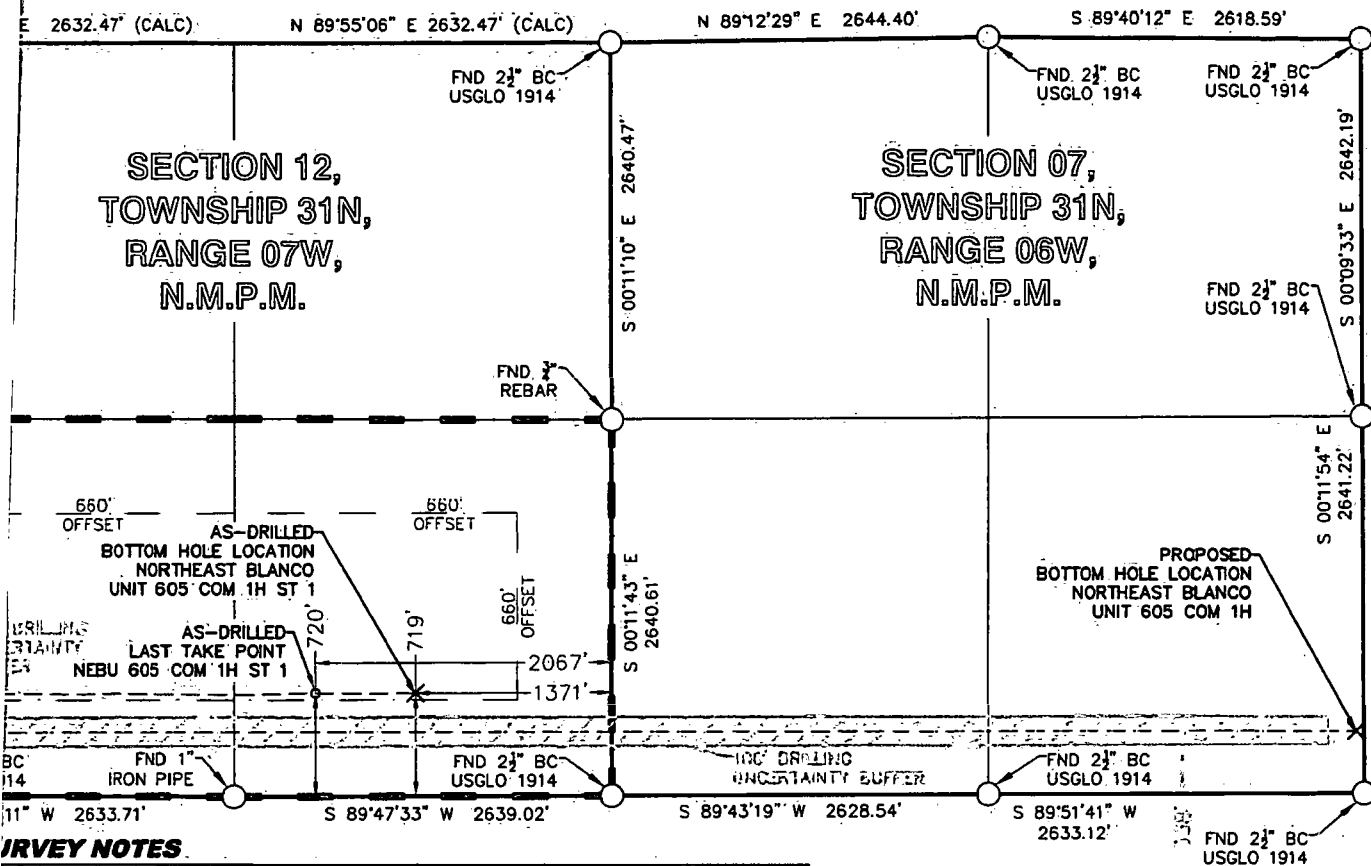


Scientific Drilling

www.scientificdrilling.com



LEGEND
 FOUND MONUMENT O
 PROPOSED SURFACE HOLE LOCATION ●
 PROPOSED BOTTOM HOLE LOCATION X



SURVEY NOTES

BEARING BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN DATUM OF 1983, NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST NEW MEXICO, ZONE 3003.
 ELEVATION BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID12A).
 SURVEYED IN THE FIELD ON 06/13/2017.
 BEARINGS AND DISTANCE SHOWN ARE MEASURED IN THE FIELD UNLESS OTHERWISE NOTED.
 ALL MEASURED DISTANCES SHOWN ARE GRID USING A COMBINED SCALE FACTOR 0.99961912.
 AS-DRILLED DATA SHOWN IS BASED ON AS-DRILLED REPORT PROVIDED BY SCIENTIFIC DRILLING DATED MAY 07, 2018.

SURVEYOR'S CERTIFICATE

MARSHALL LINDEEN, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF NEW MEXICO, DO 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.



bp	BP AMERICA PRODUCTION COMPANY US LOWER 48 ONSHORE
	AS-DRILLED PLAT
	NORTHEAST BLANCO UNIT 605 COM 1H PART OF SECTION 11 AND SECTION 12, TOWNSHIP 31N, RANGE 07W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

DRAWN BY CFW/RLM	CHECKED BY MML	SCALE 1"=1000'	DATE 06/05/2018	SHEET 1 OF 1	REVISION
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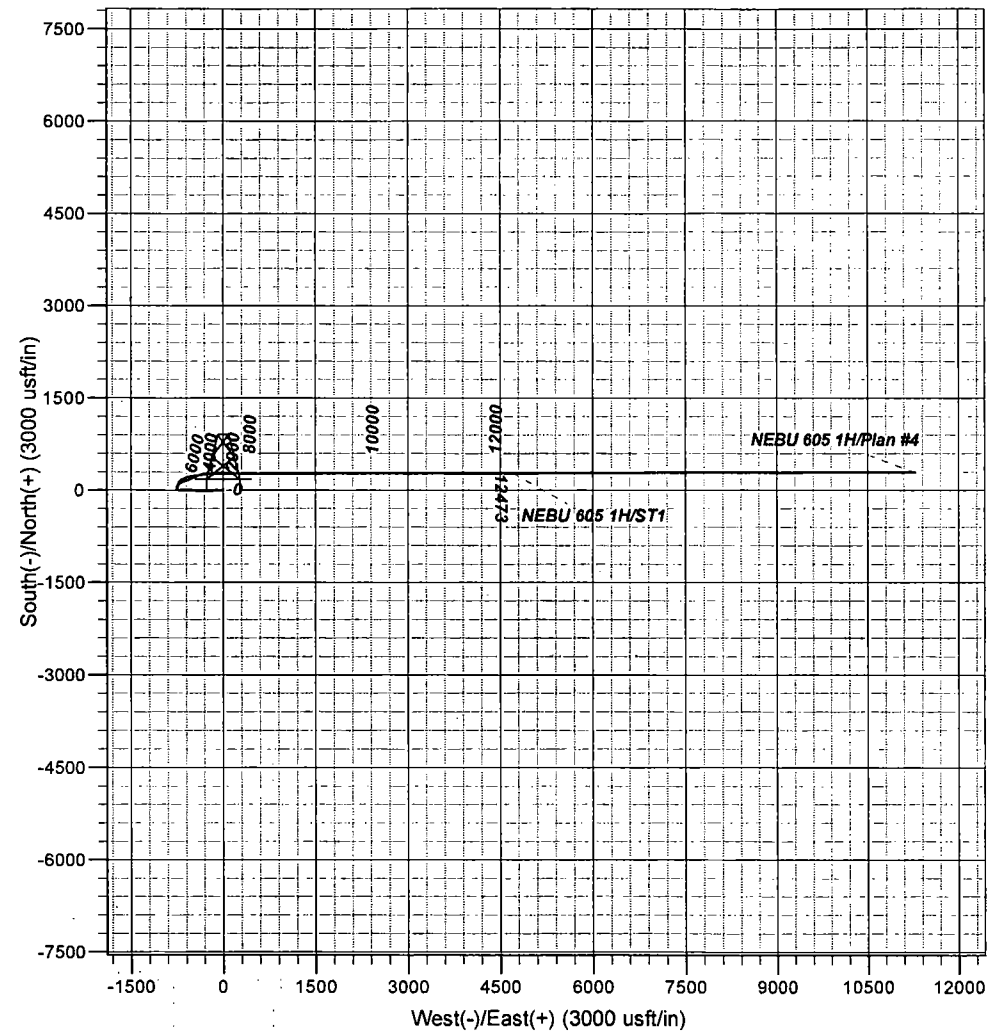
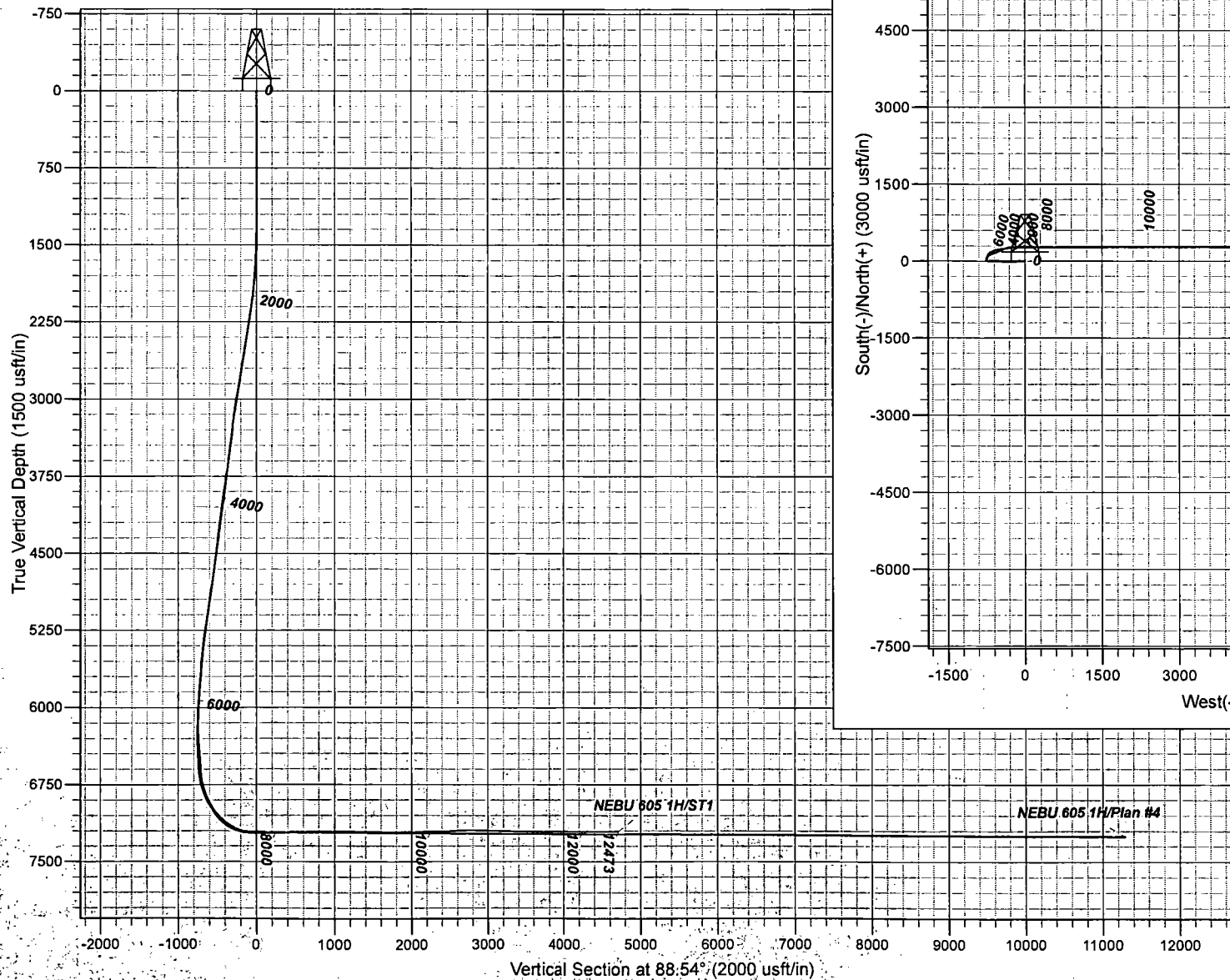


Company Name: B.P.
Project: San Juan County, NM NAD83
Site: NEBU 605 Pad
Well: NEBU 605-1H
Wellbore: ST1



WELL DETAILS: NEBU 605-1H

+N/-S	+E/-W	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000) 6471.00			
		Northing	Easting	Latitude	Longitude
0.00	0.00	2149972.24	2810585.35	36.9079896	-107.5340664



Design: ST1 (NEBU 605 1H/ST1)

Created By: Janie Collins Date: 13:07, May 07 2018

PROJECT DETAILS: San Juan County, NM NAD83

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

System Datum: Mean Sea Level
Local North: Grid



Scientific Drilling, Intl
Survey Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 605 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Site:	NEBU 605 Pad	MD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Well:	NEBU 605 1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction District

Project	San Juan County, 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	NEBU 605 Pad		
Site Position:		Northing:	2,149,972.24 usft
From:	Map	Easting:	2,810,585.35 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.9079896
		Longitude:	-107.5340664
		Grid Convergence:	0.18 °

Well	NEBU 605 1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.9079896
		Longitude:	-107.5340664
		Ground Level:	6,471.00 usft

Wellbore	ST1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	3/16/2018	9.02
			Dip Angle
			(°)
			63.50
			Field Strength
			(nT)
			49,959

Design	ST1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	5,988.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			88.54

Survey Program	Date 4/24/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
11.00	981.00	Survey #1 - Gyro Survey (Lateral)	NS-GYRO-MS
1,060.00	5,988.00	Survey #2 - Surface MWD Survey (Lateral)	SDI MWD
6,079.00	12,473.00	Survey #1 - MWD Survey (ST1)	SDI MWD
			Description
			North sensing gyrocompassing m/s
			SDI MWD - Standard ver 1.0.1
			SDI MWD - Standard ver 1.0.1

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
380.00	0.86	106.07	379.99	-0.77	2.66	2.64	0.23	0.23	0.00	
698.00	0.46	216.20	697.97	-2.46	4.20	4.14	0.35	-0.13	34.63	
981.00	0.29	225.10	980.97	-3.88	3.02	2.92	0.06	-0.06	3.14	
1,060.00	0.34	177.19	1,059.97	-4.25	2.89	2.78	0.33	0.06	-60.65	
1,091.00	0.44	213.44	1,090.97	-4.45	2.83	2.72	0.84	0.32	116.94	
1,122.00	0.42	180.85	1,121.96	-4.66	2.76	2.64	0.78	-0.06	-105.13	
1,185.00	0.57	195.33	1,184.96	-5.19	2.68	2.54	0.31	0.24	22.98	



Scientific Drilling, Intl
Survey Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 605 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Site:	NEBU 605 Pad	MD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Well:	NEBU 605 1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction District

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)
1,248.00	0.23	173.78	1,247.96	-5.62	2.61	2.46	0.58	-0.54	-34.21
1,311.00	0.27	215.01	1,310.96	-5.87	2.54	2.39	0.29	0.06	65.44
1,373.00	0.40	221.74	1,372.96	-6.15	2.31	2.15	0.22	0.21	10.85
1,436.00	0.50	249.08	1,435.96	-6.41	1.91	1.74	0.37	0.16	43.40
1,499.86	1.73	269.49	1,499.80	-6.52	0.68	0.52	1.99	1.93	31.96
1,563.00	2.83	278.20	1,562.89	-6.30	-1.81	-1.97	1.82	1.74	13.79
1,626.00	3.93	275.84	1,625.78	-5.86	-5.50	-5.65	1.76	1.75	-3.75
1,689.00	4.84	275.41	1,688.60	-5.39	-10.30	-10.43	1.45	1.44	-0.68
1,752.00	5.96	271.06	1,751.32	-5.08	-16.21	-16.34	1.89	1.78	-6.90
1,815.00	6.74	265.93	1,813.93	-5.28	-23.17	-23.30	1.53	1.24	-8.14
1,878.00	7.45	271.79	1,876.45	-5.42	-30.94	-31.07	1.61	1.13	9.30
1,941.00	7.95	272.05	1,938.88	-5.14	-39.38	-39.49	0.80	0.79	0.41
2,005.00	8.94	272.12	2,002.19	-4.79	-48.77	-48.88	1.55	1.55	0.11
2,068.00	10.03	272.33	2,064.32	-4.39	-59.14	-59.24	1.73	1.73	0.33
2,131.00	10.86	273.25	2,126.28	-3.83	-70.55	-70.62	1.34	1.32	1.46
2,194.00	11.82	270.80	2,188.05	-3.40	-82.93	-82.99	1.70	1.52	-3.89
2,258.00	12.23	269.01	2,250.64	-3.43	-96.26	-96.32	0.87	0.64	-2.80
2,321.00	12.17	268.29	2,312.22	-3.74	-109.57	-109.63	0.26	-0.10	-1.14
2,384.00	11.80	266.61	2,373.85	-4.32	-122.64	-122.71	0.81	-0.59	-2.67
2,447.00	11.32	266.87	2,435.57	-5.04	-135.24	-135.33	0.77	-0.76	0.41
2,510.00	10.75	264.96	2,497.41	-5.89	-147.27	-147.37	1.07	-0.90	-3.03
2,573.00	11.08	265.00	2,559.27	-6.94	-159.15	-159.28	0.52	0.52	0.06
2,637.00	11.83	266.48	2,621.99	-7.88	-171.83	-171.97	1.26	1.17	2.31
2,700.00	12.61	266.47	2,683.56	-8.70	-185.14	-185.30	1.24	1.24	-0.02
2,763.00	12.32	267.49	2,745.08	-9.41	-198.71	-198.89	0.58	-0.46	1.62
2,826.00	11.96	266.90	2,806.67	-10.06	-211.95	-212.13	0.60	-0.57	-0.94
2,889.00	12.26	268.37	2,868.27	-10.60	-225.15	-225.35	0.68	0.48	2.33
2,952.00	12.26	270.57	2,929.83	-10.73	-238.53	-238.72	0.74	0.00	3.49
3,015.00	12.60	270.52	2,991.35	-10.60	-252.09	-252.27	0.54	0.54	-0.08
3,079.00	12.07	269.60	3,053.88	-10.58	-265.76	-265.94	0.88	-0.83	-1.44
3,142.00	10.97	268.64	3,115.61	-10.77	-278.34	-278.52	1.77	-1.75	-1.52
3,205.00	9.33	267.24	3,177.62	-11.16	-289.43	-289.62	2.63	-2.60	-2.22
3,268.00	8.62	262.41	3,239.85	-12.03	-299.21	-299.42	1.64	-1.13	-7.67
3,332.00	9.09	260.70	3,303.08	-13.48	-308.96	-309.20	0.84	0.73	-2.67
3,395.00	9.44	265.62	3,365.26	-14.68	-319.02	-319.29	1.37	0.56	7.81
3,458.00	9.59	270.79	3,427.40	-15.00	-329.42	-329.69	1.38	0.24	8.21
3,521.00	9.89	273.54	3,489.49	-14.59	-340.07	-340.33	0.88	0.48	4.37
3,584.00	9.99	273.67	3,551.54	-13.91	-350.92	-351.16	0.16	0.16	0.21
3,647.00	9.86	274.93	3,613.60	-13.10	-361.75	-361.96	0.40	-0.21	2.00
3,710.00	9.98	275.87	3,675.66	-12.07	-372.55	-372.74	0.32	0.19	1.49
3,774.00	9.73	277.36	3,738.72	-10.81	-383.43	-383.58	0.56	-0.39	2.33
3,837.00	9.91	275.96	3,800.79	-9.57	-394.10	-394.22	0.47	0.29	-2.22
3,900.00	9.80	274.71	3,862.86	-8.57	-404.84	-404.93	0.38	-0.17	-1.98



Scientific Drilling, Intl
Survey Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 605 1H
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Well:	NEBU 605 1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction District

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)
3,963.00	10.61	273.83	3,924.87	-7.74	-415.97	-416.03	1.31	1.29	-1.40
4,026.00	10.20	274.27	3,986.83	-6.94	-427.32	-427.36	0.66	-0.65	0.70
4,089.00	10.24	274.89	4,048.83	-6.04	-438.46	-438.47	0.19	0.06	0.98
4,152.00	9.76	274.36	4,110.87	-5.16	-449.36	-449.35	0.78	-0.76	-0.84
4,215.00	9.71	272.43	4,172.97	-4.53	-460.00	-459.96	0.52	-0.08	-3.06
4,278.00	9.43	269.83	4,235.09	-4.32	-470.47	-470.42	0.82	-0.44	-4.13
4,341.00	8.94	268.65	4,297.28	-4.45	-480.52	-480.48	0.83	-0.78	-1.87
4,404.00	9.49	270.00	4,359.47	-4.56	-490.61	-490.57	0.94	0.87	2.14
4,467.00	8.84	271.92	4,421.66	-4.40	-500.64	-500.59	1.14	-1.03	3.05
4,531.00	9.32	273.20	4,484.86	-3.95	-510.73	-510.66	0.81	0.75	2.00
4,598.00	10.80	274.31	4,550.83	-3.17	-522.41	-522.32	2.23	2.21	1.66
4,661.00	10.16	270.76	4,612.78	-2.66	-533.85	-533.74	1.44	-1.02	-5.63
4,724.00	10.04	271.32	4,674.80	-2.46	-544.89	-544.78	0.25	-0.19	0.89
4,788.00	10.49	270.79	4,737.78	-2.25	-556.30	-556.17	0.72	0.70	-0.83
4,851.00	11.01	271.82	4,799.67	-1.98	-568.04	-567.91	0.88	0.83	1.63
4,914.00	11.55	271.66	4,861.45	-1.60	-580.36	-580.21	0.86	0.86	-0.25
4,977.00	11.01	272.74	4,923.24	-1.13	-592.68	-592.51	0.92	-0.86	1.71
5,041.00	9.61	272.69	4,986.20	-0.59	-604.12	-603.94	2.19	-2.19	-0.08
5,104.00	9.59	273.39	5,048.32	-0.03	-614.61	-614.41	0.19	-0.03	1.11
5,167.00	11.18	271.14	5,110.29	0.40	-625.95	-625.74	2.60	2.52	-3.57
5,230.00	12.07	272.54	5,171.99	0.81	-638.64	-638.41	1.48	1.41	2.22
5,293.00	12.23	271.61	5,233.58	1.29	-651.89	-651.65	0.40	0.25	-1.48
5,356.00	10.56	272.93	5,295.34	1.77	-664.33	-664.07	2.68	-2.65	2.10
5,419.00	8.69	270.59	5,357.45	2.12	-674.85	-674.58	3.03	-2.97	-3.71
5,483.00	8.21	269.43	5,420.75	2.12	-684.26	-683.98	0.80	-0.75	-1.81
5,546.00	7.66	269.83	5,483.15	2.07	-692.95	-692.68	0.88	-0.87	0.63
5,609.00	6.14	269.43	5,545.69	2.02	-700.52	-700.24	2.41	-2.41	-0.63
5,640.00	5.85	272.63	5,576.52	2.08	-703.76	-703.48	1.43	-0.94	10.32
5,672.00	5.64	270.58	5,608.36	2.17	-706.96	-706.68	0.92	-0.66	-6.41
5,735.00	5.11	270.98	5,671.09	2.25	-712.86	-712.57	0.84	-0.84	0.63
5,798.00	5.36	270.74	5,733.82	2.33	-718.61	-718.32	0.40	0.40	-0.38
5,861.00	5.60	277.68	5,796.54	2.78	-724.60	-724.29	1.12	0.38	11.02
5,925.00	5.83	279.99	5,860.22	3.76	-730.89	-730.56	0.51	0.36	3.61
5,988.00	5.20	279.45	5,922.93	4.79	-736.86	-736.50	1.00	-1.00	-0.86
6,079.00	4.66	308.05	6,013.60	7.74	-743.84	-743.40	2.73	-0.59	31.43
6,174.00	3.78	297.33	6,108.35	11.56	-749.66	-749.12	1.24	-0.93	-11.28
6,268.00	5.54	343.03	6,202.06	17.32	-753.74	-753.05	4.22	1.87	48.62
6,363.00	6.33	358.68	6,296.56	26.94	-755.20	-754.27	1.89	0.83	16.47
6,457.00	8.09	13.18	6,389.82	38.57	-753.81	-752.58	2.68	1.87	15.43
6,552.00	11.88	22.14	6,483.37	54.14	-748.60	-746.98	4.30	3.99	9.43
6,646.00	12.76	22.67	6,575.20	72.68	-740.95	-738.86	0.94	0.94	0.56
6,687.00	12.05	23.08	6,615.24	80.80	-737.53	-735.23	1.74	-1.73	1.00
6,718.00	13.37	32.39	6,645.49	86.80	-734.34	-731.89	7.85	4.26	30.03



Scientific Drilling, Intl
Survey Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 605 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Site:	NEBU 605 Pad	MD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Well:	NEBU 605 1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction District

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)
6,750.00	15.65	42.67	6,676.47	93.10	-729.43	-726.82	10.72	7.13	32.13
6,781.00	18.20	50.06	6,706.13	99.28	-722.88	-720.12	10.75	8.23	23.84
6,813.00	20.58	56.56	6,736.31	105.59	-714.36	-711.43	10.03	7.44	20.31
6,845.00	23.21	61.22	6,766.01	111.73	-704.13	-701.06	9.84	8.22	14.56
6,876.00	25.68	63.59	6,794.23	117.66	-692.76	-689.54	8.57	7.97	7.65
6,908.00	28.14	65.17	6,822.76	123.91	-679.70	-676.32	8.01	7.69	4.94
6,939.00	30.43	67.46	6,849.80	129.99	-665.81	-662.28	8.22	7.39	7.39
6,971.00	33.06	69.48	6,877.01	136.16	-650.15	-646.47	8.86	8.22	6.31
7,003.00	35.35	71.24	6,903.47	142.20	-633.21	-629.38	7.79	7.16	5.50
7,034.00	37.64	73.35	6,928.39	147.80	-615.64	-611.68	8.42	7.39	6.81
7,125.00	43.03	69.66	6,997.74	166.57	-559.86	-555.44	6.48	5.92	-4.05
7,156.00	44.32	66.05	7,020.17	174.64	-540.04	-535.42	9.05	4.16	-11.65
7,188.00	45.55	63.07	7,042.82	184.35	-519.64	-514.77	7.62	3.84	-9.31
7,220.00	47.81	62.72	7,064.78	194.96	-498.92	-493.79	7.11	7.06	-1.09
7,251.00	51.00	65.61	7,084.95	205.20	-477.73	-472.35	12.49	10.29	9.32
7,283.00	54.52	67.99	7,104.31	215.22	-454.32	-448.69	12.49	11.00	-7.44
7,314.00	58.54	69.50	7,121.40	224.59	-430.22	-424.36	13.59	12.97	4.87
7,346.00	62.31	71.76	7,137.20	233.81	-403.97	-397.88	13.29	11.78	7.06
7,377.00	66.21	73.88	7,150.66	242.04	-377.30	-371.01	14.01	12.58	6.84
7,409.00	68.63	76.02	7,162.95	249.71	-348.77	-342.29	9.76	7.56	6.69
7,440.00	71.18	78.77	7,173.60	256.06	-320.36	-313.73	11.71	8.23	8.87
7,472.00	73.25	80.29	7,183.37	261.59	-290.40	-283.64	7.89	6.47	4.75
7,503.00	76.05	82.40	7,191.58	266.09	-260.85	-253.99	11.16	9.03	6.81
7,535.00	77.73	84.07	7,198.84	269.76	-229.90	-222.95	7.31	5.25	5.22
7,566.00	79.23	85.48	7,205.03	272.52	-199.65	-192.65	6.58	4.84	4.55
7,597.00	80.64	87.32	7,210.45	274.44	-169.19	-162.15	7.41	4.55	5.94
7,629.00	82.83	88.47	7,215.05	275.60	-137.55	-130.48	7.71	6.84	3.59
7,661.00	84.77	89.26	7,218.50	276.23	-105.75	-98.67	6.54	6.06	2.47
7,692.00	87.05	89.87	7,220.71	276.46	-74.83	-67.76	7.61	7.35	1.97
7,724.00	89.69	90.22	7,221.62	276.44	-42.84	-35.79	8.32	8.25	1.09
7,755.00	90.40	90.93	7,221.60	276.13	-11.85	-4.81	3.24	2.29	2.29
7,850.00	89.69	90.66	7,221.52	274.81	83.14	90.12	0.80	-0.75	-0.28
7,944.00	91.54	91.19	7,220.52	273.29	177.12	184.03	2.05	1.97	0.56
8,039.00	91.54	91.28	7,217.96	271.24	272.07	278.89	0.09	0.00	0.09
8,132.00	91.28	91.19	7,215.67	269.24	365.02	371.76	0.30	-0.28	-0.10
8,227.00	90.40	90.40	7,214.28	267.92	460.00	466.67	1.24	-0.93	-0.83
8,321.00	90.20	90.12	7,213.79	267.50	553.99	560.63	0.37	-0.21	-0.30
8,415.00	89.87	88.82	7,213.73	268.36	647.99	654.61	1.43	-0.35	-1.38
8,509.00	90.31	89.43	7,213.58	269.80	741.98	748.61	0.80	0.47	0.65
8,604.00	90.48	89.17	7,212.93	270.96	836.97	843.60	0.33	0.18	-0.27
8,698.00	90.57	88.82	7,212.07	272.61	930.95	937.59	0.38	0.10	-0.37
8,793.00	90.31	88.47	7,211.34	274.86	1,025.92	1,032.59	0.46	-0.27	-0.37
8,888.00	90.31	89.78	7,210.82	276.31	1,120.90	1,127.58	1.38	0.00	1.38
8,982.00	90.22	89.08	7,210.39	277.24	1,214.90	1,221.57	0.75	-0.10	-0.74



Scientific Drilling, Intl
Survey Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 605 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Site:	NEBU 605 Pad	MD Reference:	GL 6471' & RKB 25' @ 6496.00usft (Aztec 1000)
Well:	NEBU 605 1H	North Reference:	Grid
Wellbore:	ST1	Survey Calculation Method:	Minimum Curvature
Design:	ST1	Database:	Grand Junction District

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)
9,077.00	89.87	91.19	7,210.31	277.02	1,309.89	1,316.52	2.25	-0.37	2.22
9,172.00	90.04	91.63	7,210.39	274.68	1,404.86	1,411.40	0.50	0.18	0.46
9,266.00	89.16	90.75	7,211.05	272.73	1,498.84	1,505.30	1.32	-0.94	-0.94
9,361.00	88.46	90.82	7,213.02	271.43	1,593.81	1,600.21	0.74	-0.74	0.07
9,456.00	87.76	90.14	7,216.15	270.63	1,688.75	1,695.10	1.03	-0.74	-0.72
9,550.00	88.29	89.17	7,219.39	271.20	1,782.69	1,789.02	1.18	0.56	-1.03
9,645.00	90.92	89.34	7,220.05	272.43	1,877.67	1,884.01	2.77	2.77	0.18
9,740.00	90.66	89.78	7,218.74	273.16	1,972.66	1,978.98	0.54	-0.27	0.46
9,834.00	92.42	91.10	7,216.21	272.44	2,066.62	2,072.89	2.34	1.87	1.40
9,929.00	91.63	90.58	7,212.85	271.05	2,161.55	2,167.75	1.00	-0.83	-0.55
10,023.00	91.36	90.31	7,210.40	270.32	2,255.51	2,261.67	0.41	-0.29	-0.29
10,117.00	90.84	89.34	7,208.60	270.61	2,349.49	2,355.63	1.17	-0.55	-1.03
10,212.00	92.42	88.99	7,205.89	271.99	2,444.44	2,450.58	1.70	1.66	-0.37
10,307.00	92.24	88.73	7,202.03	273.88	2,539.34	2,545.50	0.33	-0.19	-0.27
10,401.00	91.63	90.58	7,198.86	274.44	2,633.29	2,639.42	2.07	-0.65	1.97
10,496.00	90.40	90.84	7,197.17	273.27	2,728.26	2,734.34	1.32	-1.29	0.27
10,590.00	89.60	91.01	7,197.17	271.75	2,822.25	2,828.26	0.87	-0.85	0.18
10,685.00	89.16	90.14	7,198.20	270.80	2,917.24	2,923.19	1.03	-0.46	-0.92
10,780.00	88.99	89.87	7,199.74	270.79	3,012.22	3,018.15	0.34	-0.18	-0.28
10,874.00	89.08	90.14	7,201.32	270.78	3,106.21	3,112.10	0.30	0.10	0.29
10,968.00	88.99	90.22	7,202.90	270.48	3,200.20	3,206.05	0.13	-0.10	0.09
11,063.00	88.99	89.96	7,204.58	270.34	3,295.18	3,301.00	0.27	0.00	-0.27
11,157.00	89.08	90.14	7,206.16	270.25	3,389.17	3,394.95	0.21	0.10	0.19
11,251.00	88.55	89.61	7,208.10	270.46	3,483.15	3,488.91	0.80	-0.56	-0.56
11,345.00	88.72	89.96	7,210.34	270.81	3,577.12	3,582.86	0.41	0.18	0.37
11,440.00	89.96	88.99	7,211.44	271.68	3,672.11	3,677.84	1.66	1.31	-1.02
11,534.00	89.34	87.85	7,212.01	274.27	3,766.07	3,771.83	1.38	-0.66	-1.21
11,629.00	88.81	87.41	7,213.55	278.20	3,860.97	3,866.81	0.73	-0.56	-0.46
11,724.00	90.84	89.43	7,213.84	280.82	3,955.93	3,961.80	3.01	2.14	2.13
11,819.00	91.28	91.10	7,212.08	280.38	4,050.91	4,056.73	1.82	0.46	1.76
11,913.00	90.13	89.43	7,210.92	279.95	4,144.89	4,150.68	2.16	-1.22	-1.78
12,008.00	91.19	91.01	7,209.83	279.58	4,239.88	4,245.63	2.00	1.12	1.66
12,100.00	90.92	90.05	7,208.13	278.73	4,331.86	4,337.56	1.08	-0.29	-1.04
12,191.00	90.48	89.26	7,207.02	279.28	4,422.85	4,428.53	0.99	-0.48	-0.87
12,282.00	89.96	89.08	7,206.67	280.60	4,513.84	4,519.52	0.60	-0.57	-0.20
12,372.00	90.13	89.61	7,206.60	281.63	4,603.83	4,609.52	0.62	0.19	0.59
12,473.00	90.13	89.61	7,206.37	282.31	4,704.83	4,710.50	0.00	0.00	0.00