

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM03358

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
NEBU 604 COM 1H

2. Name of Operator

BP AMERICA PRODUCTION CO

Contact: TOYA COLVIN

E-Mail: Toya.Colvin@bp.com

9. API Well No.
30-045-35793-00-X1

3a. Address

PO BOX 3092
HOUSTON, TX 772533b. Phone No. (include area code)
Ph: 281-892-536910. Field and Pool or Exploratory Area
BASIN MANCOS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 13 T31N R7W SWNW 1872FNL 601FWL
36.901634 N Lat, 107.529221 W Lon

11. County or Parish, State

SAN JUAN COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Hydraulic Fracturing☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other
Change to Original A
PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BP has changed the bottom hole location of our lateral for the subject well.

Please see the attached updated drill plan, directional plan, C-102 plat, and additional documents for this change to our original APD.

OIL CONS. DIV DIST. 3

FEB 13 2017

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #365201 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Farmington
Committed to AFMSS for processing by JACK SAVAGE on 02/07/2017 (17JWS0061SE)**

Name (Printed/Typed) TOYA COLVIN

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/30/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE

Title PETROLEUM ENGINEER

Date 02/07/2017

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NMOCD

**ADHERE TO PREVIOUS NMOCD
CONDITIONS OF APPROVAL**

122

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, Artec, 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. OIL CONS. DIV DIST. 3
Santa Fe, NM 87505

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

FEB 13 2017

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35793		² Pool Code 97232	³ Pool Name Mancos Gas
⁴ Property Code	⁵ Property Name Northeast Blanco Unit 604 Com		⁶ Well Number 1H
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company		⁹ Elevation 6500

¹⁰ Surface Location

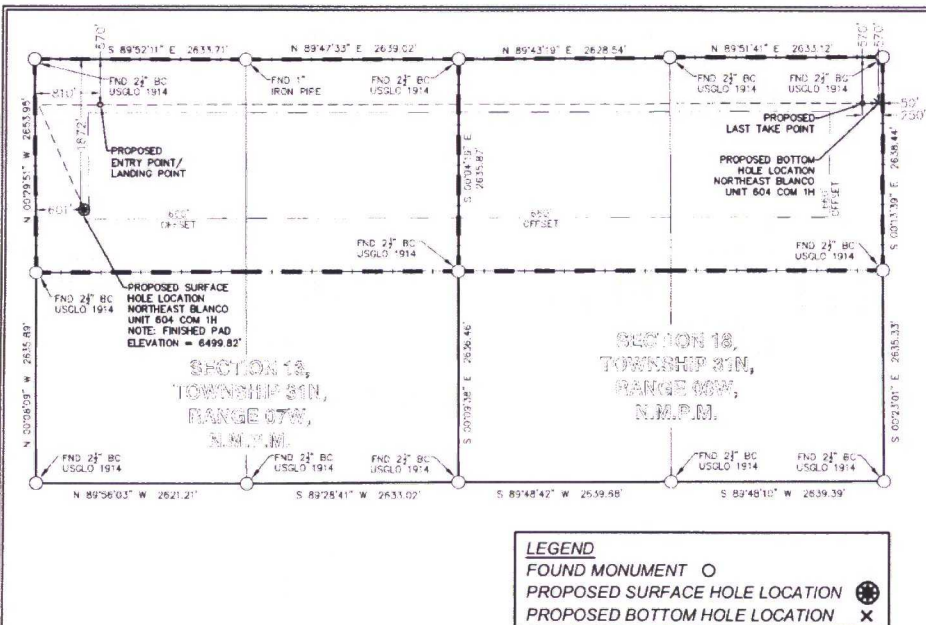
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	31N	07W		1872	North	601	West	San Juan

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
A	18	31N	06W		570	North	50	East	San Juan

¹² Dedicated Acres 640.00 N/2 - SEC. 13 N/2 - SEC. 18	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



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: *Toya Colvin* Date: 1/17/17

Printed Name: Toya Colvin

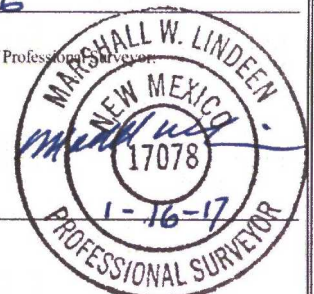
E-mail Address: toya.colvin@bp.com

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.

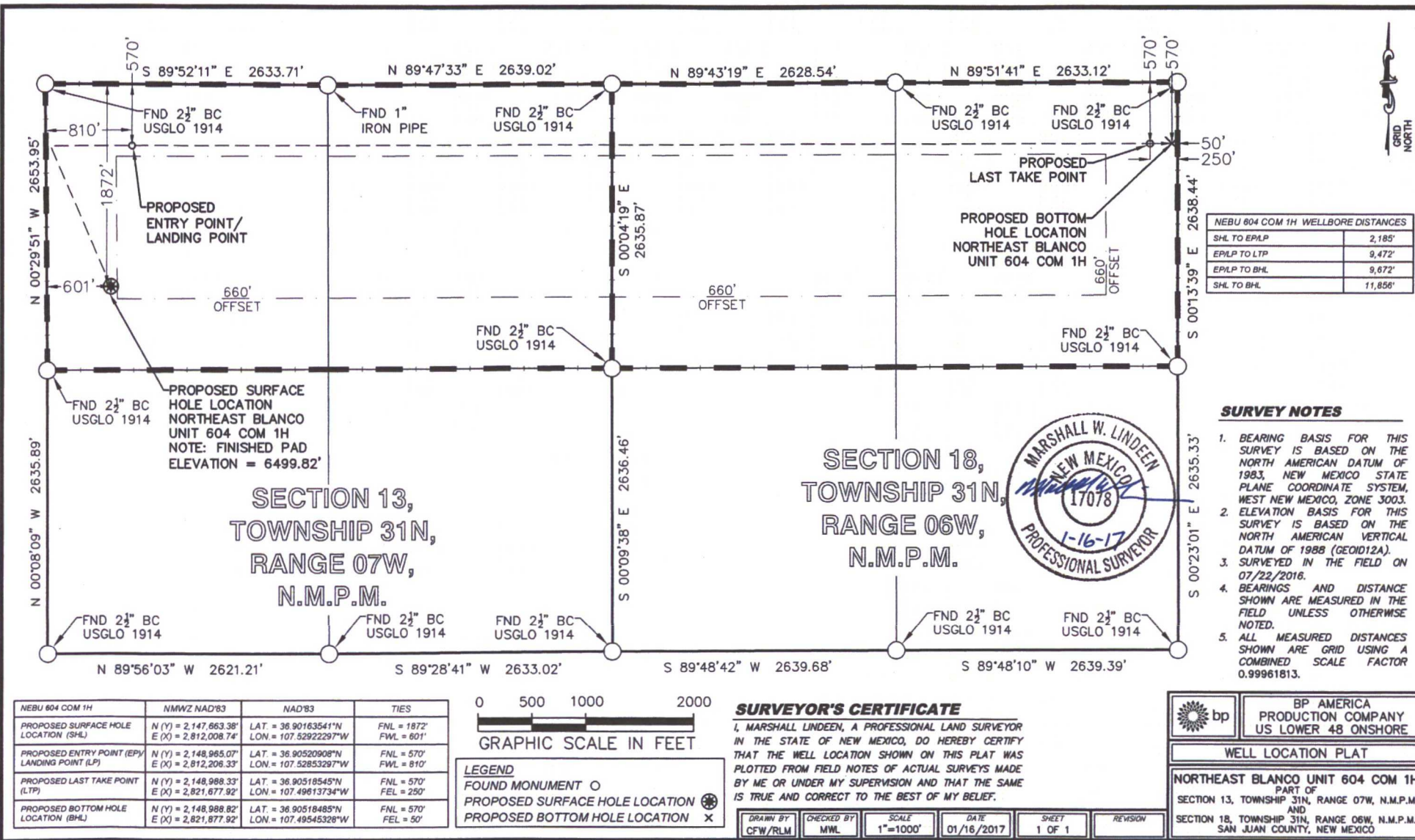
7-22-16
Date of Survey

Signature and Seal of Professional Surveyor



17078
Certificate Number

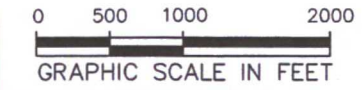
NEBU 604 COM 1H	NMWZ NAD'83	NAD'83	TIES
PROPOSED SURFACE HOLE LOCATION (SHL)	N (Y) = 2,147,663.38' E (X) = 2,812,008.74'	LAT. = 36.90163541°N LON. = 107.52922297°W	FNL = 1872' FWL = 601'
PROPOSED ENTRY POINT (EP)/ LANDING POINT (LP)	N (Y) = 2,148,965.07' E (X) = 2,812,206.33'	LAT. = 36.90520908°N LON. = 107.52853297°W	FNL = 570' FWL = 810'
PROPOSED LAST TAKE POINT (LTP)	N (Y) = 2,148,988.33' E (X) = 2,821,677.92'	LAT. = 36.90518545°N LON. = 107.49613734°W	FNL = 570' FEL = 250'
PROPOSED BOTTOM HOLE LOCATION (BHL)	N (Y) = 2,148,988.82' E (X) = 2,821,877.92'	LAT. = 36.90518485°N LON. = 107.49545328°W	FNL = 570' FEL = 50'



NEBU 604 COM 1H WELLBORE DISTANCES	
SHL TO EP/LP	2,185'
EP/LP TO LTP	9,472'
EP/LP TO BHL	9,672'
SHL TO BHL	11,856'

- SURVEY NOTES**
1. 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.
 2. ELEVATION BASIS FOR THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID12A).
 3. SURVEYED IN THE FIELD ON 07/22/2018.
 4. BEARINGS AND DISTANCE SHOWN ARE MEASURED IN THE FIELD UNLESS OTHERWISE NOTED.
 5. ALL MEASURED DISTANCES SHOWN ARE GRID USING A COMBINED SCALE FACTOR 0.99961813.

NEBU 604 COM 1H	NMWS NAD'83	NAD'83	TIES
PROPOSED SURFACE HOLE LOCATION (SHL)	N (Y) = 2,147,663.38' E (X) = 2,812,008.74'	LAT. = 36.90163541°N LON. = 107.52922297°W	FNL = 1872' FWL = 601'
PROPOSED ENTRY POINT (EP/LP)	N (Y) = 2,148,965.07' E (X) = 2,812,208.33'	LAT. = 36.90520908°N LON. = 107.52853297°W	FNL = 570' FWL = 810'
PROPOSED LAST TAKE POINT (LTP)	N (Y) = 2,148,988.33' E (X) = 2,821,677.92'	LAT. = 36.90518545°N LON. = 107.49613734°W	FNL = 570' FEL = 250'
PROPOSED BOTTOM HOLE LOCATION (BHL)	N (Y) = 2,148,988.82' E (X) = 2,821,877.92'	LAT. = 36.90518485°N LON. = 107.49545328°W	FNL = 570' FEL = 50'



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

SURVEYOR'S CERTIFICATE
I, 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.

DRAWN BY CFW/RLM	CHECKED BY MWL	SCALE 1"=1000'	DATE 01/16/2017	SHEET 1 OF 1	REVISION
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**BP AMERICA
PRODUCTION COMPANY
US LOWER 48 ONSHORE**

WELL LOCATION PLAT
NORTHEAST BLANCO UNIT 604 COM 1H
PART OF
SECTION 13, TOWNSHIP 31N, RANGE 07W, N.M.P.M.
AND
SECTION 18, TOWNSHIP 31N, RANGE 06W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

**Attachment to Application for Permit to Drill.
Drilling program**

**BP America Production Company
US Lower 48 Onshore
200 Energy Court
Farmington, NM 87401**

NEBU 604 Com #1H
Mancos Horizontal Development Well
Surface Location: 1872' FNL & 601' FWL
Section 13, T31N, R07W
GL Elevation = 6499.82'
Lat. = 36.90163541° N
Long. = 107.52922297° W
NAD83
San Juan County, New Mexico

Proposed Bottom Hole Location: 570' FNL – 50' FEL
Section 18, T31N, R06W
San Juan County, New Mexico

Drilling program written in compliance with onshore Oil and Gas
Order No. 1

(III.D.3, effective May 2007) and Onshore Order No. 2 Dated November 18, 1988

SECTION – 1 – GEOLOGIC FORMATIONS AND CONTENTS

Marker	TVD	MD	Comments	BHP PSI/FT
Tertiary/San Jose Ss	25	25	Wet/aquifer	0.43
Ojo Alamo Ss	2,385	2,442	Wet/aquifer	0.43
Kirtland (Top/Cretaceous)	2,505	2,581	Gas & water-bearing	0.43
Fruitland	3,000	3,160	Gas & water-bearing	0.15
Lemon coal zone	3,195	3,388	Gas & water-bearing	0.07
Ignacio coal zone	3,240	3,441	Gas & water-bearing	0.07
Cotton Wood Coal	3,315	3,529	Gas & water-bearing	0.07
Pictured Cliff Ss	3,335	3,552	Wet	0.12
Cliffhouse Ss	5,415	5,973	Gas- & water-bearing	0.35
Mancos sh	6,175	6,764	Gas-bearing	0.43

Possible Aquifers: San Jose and Ojo Alamo

Oil Shale: None Expected.

Oil & Gas: Primary objective is the Mancos formation from 7,117' TVD (heel) to 7,147' TVD (toe).
Landing point is expected to be in the Mancos at 7,117' TVD.

Protection of oil, gas, water, or other mineral bearing formations: Protection shall be accomplished by setting surface casing below base of possible aquifer and cementing surface casing to surface.

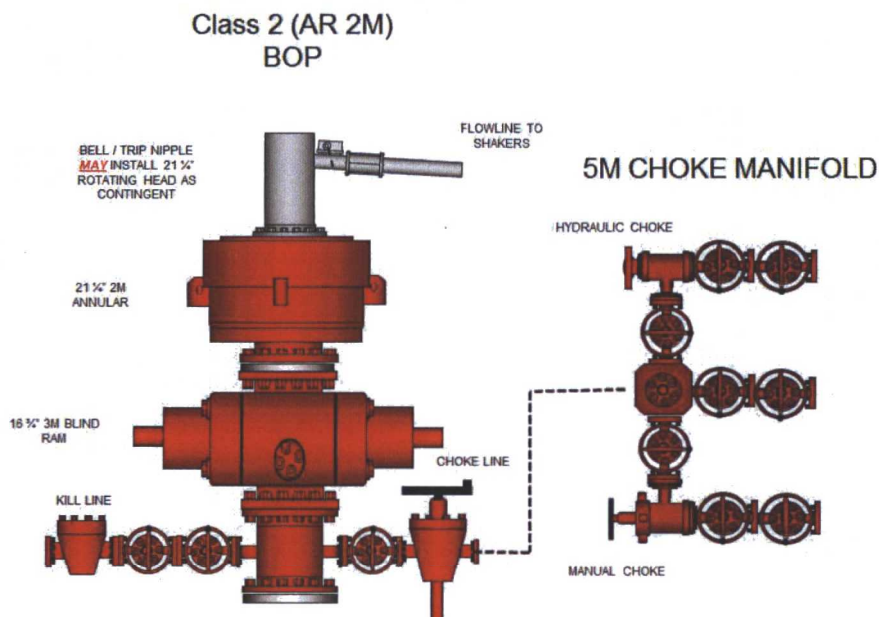
SECTION – 2 BOPE

BOP equipment and accessories will meet or exceed BLM requirements outlined in 43 CFR Part 3160.

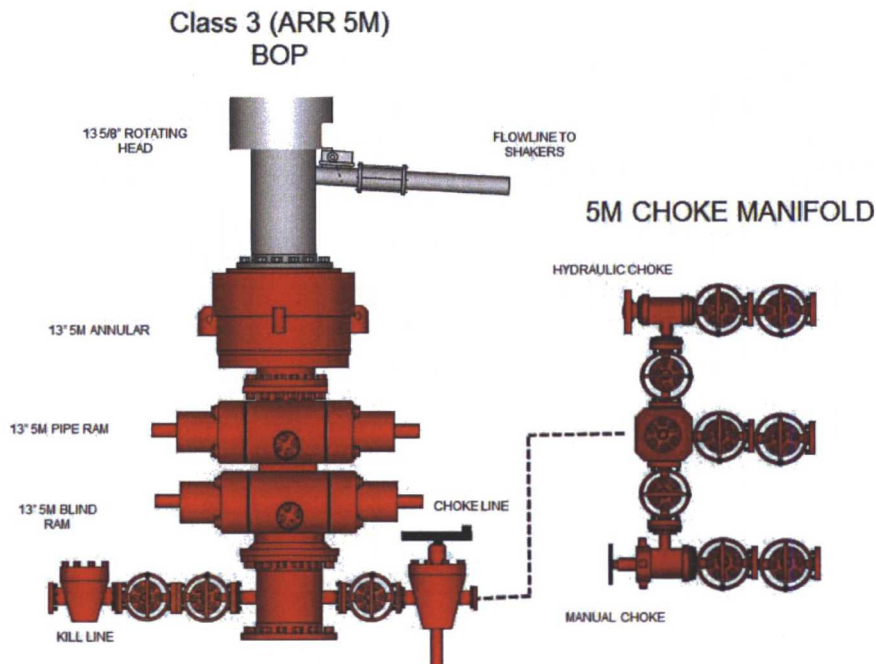
A 16 3/4" 2M BOPE and 13 5/8" 5M BOPE will be utilized to drill this well. Maximum anticipated surface pressure for the 16 3/4" 2M BOPE is 1,342 psi, maximum anticipated surface pressure for 13 5/8" 5M BOPE is 1,500 psi. The 16 3/4" BOPE will be tested 250 psi (Low) for 5 minutes and 2000 psi (High) for 10 minutes. The 13 5/8" BOPE will be tested 250 psi (Low) for 5 minutes and 5000 psi (High) for 10 minutes. Pressure test surface and intermediate casing(s) to 1500 psi for 30 minutes. All preventers and surface casing will be tested before drilling out of surface casing. BOP equipment will be tested every 30 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe rams will be activated daily and blind rams shall be activated each trip or at least weekly. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE.

		BHP	MASP
16 3/4" 2M BOPE	6,394' TVD	2,749	1,342
13 5/8" 5M BOPE	7,147' TVD	3,730	1,500

16-3/4" BOPE



13-5/8" BOPE



SECTION – 3 Casing

Bit Program

20" Surface Hole = Surface to 320'

14 3/4" = 320' to 4,000' MD = *11 3/4" (TO ACCOMMODATE CONTINGENCY STRING IF REQUIRED)

10 5/8" = 4,000 to 6,600' MD = 8 5/8" casing point. (KOP @ 6,575' MD)

7-7/8" Curve and Lateral = 6,600' MD (KOP) to 17,430' MD

Casing Program – all casing strings are new casing

Casing & Hole Size	Weight	Grade	Coupling	Setting Depth (MD)	Comments
16" (20")	65 ppf	J55	ST&C	0' - 320'	New casing. Cement to surface. *Surface Casing maybe preset
*11-3/4" (14-3/4")	*47 ppf *54 ppf	*J-55 *K-55	*BT&C *BT&C	*0' – 2,500' 2,500' – 4,000'	*New Casing. Two Stage Cement *Contingency String
8-5/8" (10-5/8")	32 ppf	N-80HC	BT&C	0' – 6,600'	New Casing. Two Stage Cement to surface
5-1/2" (7-7/8")	20 ppf	P-110	VAroughneck or equivalent	0' – 17,430'	New Casing – Single Stage Cement to overlap previous casing shoe.

Design Factor Table

Surface Casing Design - Evacuation/Casing Test (collapse & burst), 100k overpull (tension)

					Collapse	Burst	Tension
Min Safety Factors					1.125	1.100	1.400

	Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)	Notes
Surface	16	65	J55	STC	630	2,260	1,012,000	591,000	
					80% of Burst =		1,808		

	Casing Depth	MW in	MW out	Pres in	Pres out	SF	
Collapse	300	0	15.80	0	246	2.56	Full evacuation with 15.8ppg cement in the annulus
Burst	300	15.8	0	1500	0	1.51	1500psi casing test
		Mud Wt	Air Wt	Bouy Wt	BW +100k		
Tension (Pipe Body)	300	8.3	19,500	17,029	117,029	8.65	100k over pull
Tension (Connection)	300	8.3	19,500	17,029	117,029	5.05	
BF= 1- (MW)/65.5 = 0.8733							

Intermediate Casing Design - Evacuation/Casing Test (collapse & burst), 100k overpull (tension)

						Collapse	Burst	Tension		
Min Safety Factors						1.125	1.100	1.400		
Btm Interval		Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)	Notes
Intermediate	2500	11.75	47	J55	BTC	1,510	3,070	737,000	807,000	
						80% of Burst =		2,456		
Measured Depth		TVD	MW in	MW out	Pres in	Pres out	SF			
Collapse	2500	2457	0	9.00	0	1150	1.31			
Burst	2500	2457	9.0	0	1150	0	2.67			
Tension (Pipe Body)	2500	2457	Mud Wt	Air Wt	Bouy Wt	BW +100k	3.69			
Tension (Connection)		2457	9.0	115,479	99,612	199,612	4.04			
		BF= 1 - (MW)/65.5 = 0.8626								

Intermediate Casing Design - Evacuation/Casing Test (collapse & burst), 100k overpull (tension)

						Collapse	Burst	Tension		
Min Safety Factors						1.125	1.100	1.400		
Btm Interval		Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)	Notes
Intermediate	4000	11.75	54	K55	BTC	2,070	3,570	850,000	1,079,000	
80% of Burst =							2,856			
Measured Depth		TVD	MW in	MW out	Pres in	Pres out	SF			
Collapse	4000	3887	0	9.00	0	1819	1.14			
Burst	4000	3887	9.0	0	1819	0	1.96			
Tension (Pipe Body)	4000	3887	Mud Wt	Air Wt	Bouy Wt	BW +100k				
Tension (Connection)		3887	9.0	209,898	181,057	281,057	3.02	100k over pull		
			9.0	209,898	181,057	281,057	3.84			
		BF=1- (MW)/.65.5 = 0.8626								

Intermediate Casing Design - Evacuation/Casing Test (collapse & burst), 100k overpull (tension)

						Collapse	Burst	Tension		
Min Safety Factors						1.125	1.100	1.400		
	Btm Interval	Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)	Notes
Intermediate	6600	8.625	32	N80HC	BTC	3,800	5,710	732,000	737,000	
						80% of Burst =		4,568		
	Measured Depth	TVD	MW in	MW out	Pres in	Pres out	SF			
Collapse	6600	6394	0	9.00	0	2992	1.27			
Burst	6600	6394	9.0	0	2992	0	1.91			
Tension (Pipe Body)	6600	6394	Mud Wt	Air Wt	Bouy Wt	8W +100k				
Tension (Connection)		6394	9.0	204,608	176,494	276,494	2.65	100k over pull		
		6394	9.0	204,608	176,494	276,494	2.67			
BF= 1- (MW)/65.5 = 0.8626										

Casing Design - Evacuation/Max Mud Wt (collapse), Max Frac Pres (burst) 100k overpull (tension)

					Collapse	Burst	Tension	
Min Safety Factors					1.125	1.100	1.400	
	Size	Weight	Grade	Conn	Collapse	Burst	Tension (Pipe Body)	Tension (Connection)
Production	5.5	20	P-110	VARough	13,300	12,360	641,000	641,000
20 ppf P-110 VARoughneck								
	Casing Depth TVD	MW in	MW out	Pres in	Pres out	SF	Notes	
Collapse	7147	0	12.00	0	4460	2.98		
Burst	7147	12.0	0	10000	0	1.24	Max Allowable Treating Pressure = Frac Pressure Pop off valve will be set below this value	
		Mud Wt	Air Wt	Bouy Wt	BW +100k			
Tension (Pipe Body)	7147	9.0	142,940	123,299	223,299	2.87	100k over pull	
Tension (Connection)	7147	9.0	142,940	123,299	223,299	2.87		
BF= 1- (MW)/65.5 = 0.8626								

Casing strings below the conductor casing will be tested to .22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield.

Minimum casing design factors used:

Collapse -	1.125
Burst -	1.1
Jt. Strength -	1.40

Surface Casing – Centralizers shall be placed on the first 4 (bottom 4) joints of casing (1 per joint) and 1 every 3rd joint to surface.

Intermediate casing – Centralizers shall be placed on first 3 (bottom 3) joints of casing (1 per joint) and 1 every 3rd joint to surface. (*contingency string will use the same centralizer placement)

Production String – Centralizers will be placed at discretion in lateral to achieve adequate standoff for quality cement job. A toe sleeve will be placed 2 joints above shoe track.

*BP respectfully request to have option to set an 11 ¾" contingency string if severe losses occur while drilling fruitland coal interval. The casing string will cover the fruitland coal interval and shoe will be set at 4,000'. A two stage cement job will be utilized with stage tool at +/- 2700' MD. The following 8 5/8" casing string will have a two stage cement job with stage too at +/- 4,600' MD.

NOTE: If contingency string is not required the 8 5/8" casing will be ran to setting depth and a two stage cement job will be utilized with stage tool at +/- 2700' MD.

NOTE: DV tool placement is described in cement section and will be used at the discretion of the operator if there is evidence of heavy losses and we are concerned that cement will not make it to surface.

*Surface casing maybe preset with a preset rig.

SECTION – 4 Cement

The proposed cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. All indications of useable water shall be reported.

- Pea Gravel or other material shall not be used to fill up around the surface casing in the event cement fall back occurs.

- The surface casing shall in all cases be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface. No more than the top 100' will be remediated with 1" line if fall back occurs. Anything more than 100' will require plan approval to remediate.
- Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a pre-flush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- Cement Volumes may be adjusted based on hole conditions.

Surface Casing Single Stage Job – (0-320'MD/TVD): 20" hole x 16" casing – 100% XS

Cement will be circulated to surface with 405 sx of Class G cement, 15.8 ppg, 1.174 ft³/sk, 94 lbm/sk, 2% CaCl, 0.1250 lbm/sk Poly E Flake, 5.13 Gal/sk fresh water. Volume 471 ft³

Intermediate Casing – Two Stage (0-6,600'MD/6,394'TVD): 14.75" (320' to 4,000') hole x 10.625" (4,000' to 6,600') hole x 8.625" casing Stage tool @ +/- 2,700' MD

Cement will be circulated to surface. Stage 1 Lead – 1075 sx of Poz 12.3 ppg, 1.958 ft³/sk, 61.10 lbm/sk, 0.1250 lbm/sk Poly E Flake, 10.42 Gal/sk fresh water. Tail – 220 sx 15.8 ppg, 1.147 ft³/sk, 94 lbm/sk, 0.10% Halad, 0.150 lbm/sk Poly E Flake, 4.96 Gal/sk freshwater. Stage 2 Lead – 1225 sx of Poz 12.3 ppg, 2.005 ft³/sk, 61.10 lbm/sk, 2% CaCl, 0.1250 lbm/sk Poly E Flake, 10.74 Gal/sk. Tail – 270 sx 15.8 ppg, 1.147 ft³/sk, 94 lbm/sk, 4.99 Gal/sk. Volume 5079 ft³

CONTINGENCY – 11.75" string will be run if we see excessive losses.

Intermediate 1 Casing – Two Stage (0-4,000'MD/3,887'TVD) 14.75" hole X 11.75" casing Stage tool @ +/- 2,700'MD: Contingency String

Cement will be circulated to surface. Stage 1 Lead – 235 sx of Poz 12.3 ppg, 1.958 ft³/sk, 61.10 lbm/sk, 0.1250 lbm/sk Poly E Flake, 10.42 Gal/sk fresh water. Tail – 450 sx 13.5 ppg, 1.317 ft³/sk, 94 lbm/sk, 0.10% Halad, 0.150 lbm/sk Poly E Flake, 4.96 Gal/sk freshwater. Stage 2 Lead – 670 sx of Poz 12.3 ppg, 2.005 ft³/sk, 61.10 lbm/sk, 2% CaCl, 0.1250 lbm/sk Poly E Flake, 10.74 Gal/sk. Tail – 150 sx 15.8 ppg, 1.147 ft³/sk, 94 lbm/sk, 4.99 Gal/sk. Volume 2553 ft³

Intermediate 2 Casing – Two Stage (0'-6,600'MD/6,394'TVD) 10.625" hole x 8.625" casing Stage tool @ +/- 4,600'MD:

Cement will overlap previous casing shoe at 3,500' MD. Stage 1 Lead – 130 sx of Poz 12.3 ppg, 1.959 ft³/sk, 61.10 lbm/sk, 0.10% HR-5, 0.1250 lbm/sk Poly E Flake, 10.42 Gal/sk fresh water. Tail – 220 sx 13.5 ppg, 1.317 ft³/sk, 47 lbm/sk, 0.10% HR-5, 0.1250 lbm/sk Poly E Flake, 5.95 Gal/sk freshwater. Stage 2 - Lead – 145 sx of Poz 12.3 ppg, 1.959 ft³/sk, 61.10 lbm/sk, 0.10% HR-5, 0.1250 lbm/sk Poly E Flake, 10.42 Gal/sk fresh water. Tail - 70 sx 15.8 ppg, 1.147 ft³/sk, 94 lbm/sk, 0.10 Halad(R) - 9, 4.98 Gal/sk. Volume 888 ft³

Production Casing – Single Stage Conventional Cement (0' - 17,430' MD/ 7,147' TVD) 7.825" hole x 5.5" casing:

Estimated top of cement at 6,000' MD. 1445 sx of Class G cement, 15.8 ppg, 1.174 ft³/sk, 94 lbm/sk, 2% CaCl, 0.1250 lbm/sk Poly E Flake, 5.13 Gal/sk fresh water Volume 1696 ft³

Cement calculations are used for volume estimation. Well conditions will dictate final cement job design.

Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending on service provider selected. Cement yields may change depending on slurries selected.

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

SECTION – 5 Circulating Medium (Mud Program)

CLOSED-LOOP SYSTEM DESIGN PLAN

The closed-loop system will consist of a series of temporary above-ground storage tanks and/or haul-off bins suitable for holding the cuttings and fluids from drilling operations. The closed-loop system will not entail temporary pits, below-grade storage tanks, below-grade sumps, or drying pads.

Design considerations include:

- The closed-loop system will be signed in accordance with 19.15.17.11 NMAC.
- The closed-loop system storage tanks will be of adequate volume to ensure confinement of all fluids and provide sufficient freeboard to prevent uncontrolled releases.
- Topsoil will be salvaged and stored for use in reclamation activities.

CLOSED-LOOP SYSTEM OPERATING & MAINTENANCE PLAN

The closed-loop system will be operated and maintained to contain liquids and solids; minimize the amount of drilling fluids and cuttings that require disposal; maximize the amount of drilling fluid recycled and reused in the drilling process; isolate drilling wastes from the environment; prevent contamination of fresh water; and protect public health and the environment.

Operation and maintenance considerations include:

- Fluid levels will be maintained to provide sufficient freeboard to prevent over-topping.
- Visual inspections will be conducted on a daily basis to identify any potential leaks and to ensure that the closed-loop system storage tanks have sufficient freeboard to prevent over-topping.
- Only drilling fluids or cuttings intrinsic to, used by, or generated from, drilling operations will be stored in the closed-loop system storage tanks. Hazardous waste, miscellaneous solid waste, and/or debris will not be stored in the storage tanks.
- The OCD District Office will be notified within 48 hours of discovery of a leak in the closed-loop drilling system. If a leak is discovered, all liquid will be removed within 48 hours and the damage repaired.

CLOSED-LOOP SYSTEM CLOSURE PLAN

The closed-loop system will be closed in accordance with 19.15.17.13 NMAC. Closure

considerations include:

- Drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical.
- Residual fluids will be pulled from the storage tanks, mixed with saw dust or similar absorbent material, and disposed of at Industrial Envirotech, Inc. waste disposal facilities.
- Remaining cuttings or sludges will be vacuumed from the storage tanks and disposed of at the Envirotech, Inc and/or Industrial Ecosystem, Inc. waste disposal facilities.
- Storage tanks will be removed from the well location during the rig move.
- The well pad will be reclaimed and seeded in accordance with subsections G, H and I of 19.15.17.13 NMAC.

Mud Tables

Interval (MD)	Hole Section	Hole Size	Type	MW	FL	PV	YP	PH	REMARKS
0'-320'	Surface	20"	FW/Gel	8.4	NC	8	12	9.0	Spud Mud
320'-6,600'	Intermediate	14 3/4" x 10 5/8"	LSND	8.6-9.0	<8	4-6	12-15	10.0	Fresh Water
6,600'-17,430	Production	7-7/8"	OBM	9.0-12.0	<8	14-20	8-14	11.0	OBM

Contingency

Interval (MD)	Hole Section	Hole Size	Type	MW	FL	PV	YP	PH	REMARKS
320'-4,000'	Intermediate 1	14 3/4"	LSND	8.6-9.0	<8	4-6	12-15	10.0	Fresh Water
4,000'-6,600'	Intermediate 2	10-5/8"	AIR	NC	NC	NC	NC	NC	

Sufficient weighting material will be on hand to weight mud up to 1 PPG over, if required.

The formula for weight up with barite is listed below:

$$\text{Sacks of Barite per 100 bbl of mud} = 1470 \times (W2 - W1) \div (35 - W2)$$

Where; W1 = current mud weight

W2 = new mud weight

$$\text{Sacks} = 1470 \times (10 - 9) / (35 - 10) = 59 \text{ sx} \times 5 \text{ (500bbbls minimum)} = 294 \text{sx}$$

Pason Pit Volume Totalizer (PVT) equipment (or equivalent) will be on each pit to monitor pit levels. A trip tank equipped with a Pason PVT will be used to monitor trip volumes.

A closed-loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals, including fresh water and oil-based operations. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an EPA-approved hazardous waste facility. Fresh water cuttings will be disposed of as outlined is surface use plane location will be lined in accordance with the Surface Use Plan of Operations.

SECTION – 6 Test, Logging & Coring

Testing: None planned.

Logging:

Directional surveys in Vertical section

Azimuthal and Radial GR – Drilling curve and lateral

Mud Logging:

Geologist & a manned mud-logging unit will be operational @ +/- 6,600' to TD.

Gas detecting equipment shall be installed in the mud return system for exploratory wells and hydrocarbon gas shall be monitored for pore pressure changes from base of surface casing to TD.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume.

Coring: None

Cement Bond Log:

BP will run a cement bond log (CBL) if cement returns are not observed on the surface and first intermediate casing strings. The CBL will confirm the quality of cement and the actual top of cement.

SECTION – 7 Pressure

Normal to subnormal pressure gradient to TD.

MASP and casing design parameters determined using 0.43 psi/ft.

Maximum expected BHP @ 7147' TVD: 3,073 psi

Maximum expected BHT @ 7147' TVD: ~200° F

Possible lost circulation in the Fruitland Coal to Mesa Verde (~3,000' to 5,000'). Lost circulation has been successfully mitigated with lost circulation materials in concentrations of up to 30% by volume. Intermediate casing will be set through this interval to +/- 6,600'.

No hydrogen sulfide gas is anticipated, however, if H₂S is encountered, the guidelines in Onshore Order No. 6 will be followed.

Directional Plans: Horizontal directional well, directional plans attached.

Completion:

- **Pressure test**
 - Pressure test production casing to allowable frac pressure or as per BLM requirements
- **Stimulation**
 - well will be stimulated with approximately 35,000,000 pound of proppant in 775,000 bbls of water; the number of stages and the amount of proppant will be adjusted based on the petrophysical properties of the target zone
 - stages will be isolated with plugs
 - plugs will be drilled out
 - flowback well
- **Turn well to production**
 - It is intended to produce the well up the casing, without installing tubing, for at least 60 days or until tubing is needed to unload the well

Timing: BP plans to drill this well in June, 2017

It is anticipated that the drilling of this well will take approximately 30 days.

It is anticipated that completion operations will begin immediately after the well has been drilled depending on stimulation company availability.



Company: B.P.
Project: San Juan County, NM NAD83
Site: NEBU 604 Pad
Well: NEBU 604 COM 1H
Wellbore: OH
Design: Plan #2

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



Azimuths to Grid North
True North: -0.18°
Magnetic North: 8.97°

Magnetic Field
Strength: 50150.5nT
Dip Angle: 63.55°
Date: 7/21/2016
Model: HDGM

WELL DETAILS: NEBU 604 COM 1H

GL 6500' & RKB 25' @ 6525.00usft
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 2147663.38 2812008.74 36.9016354 -107.5292230

Plan: Plan #2 (NEBU 604 COM 1H/OH)

Created By: Janie Collins Date: 16:10, January 18 2017

DESIGN TARGET DETAILS

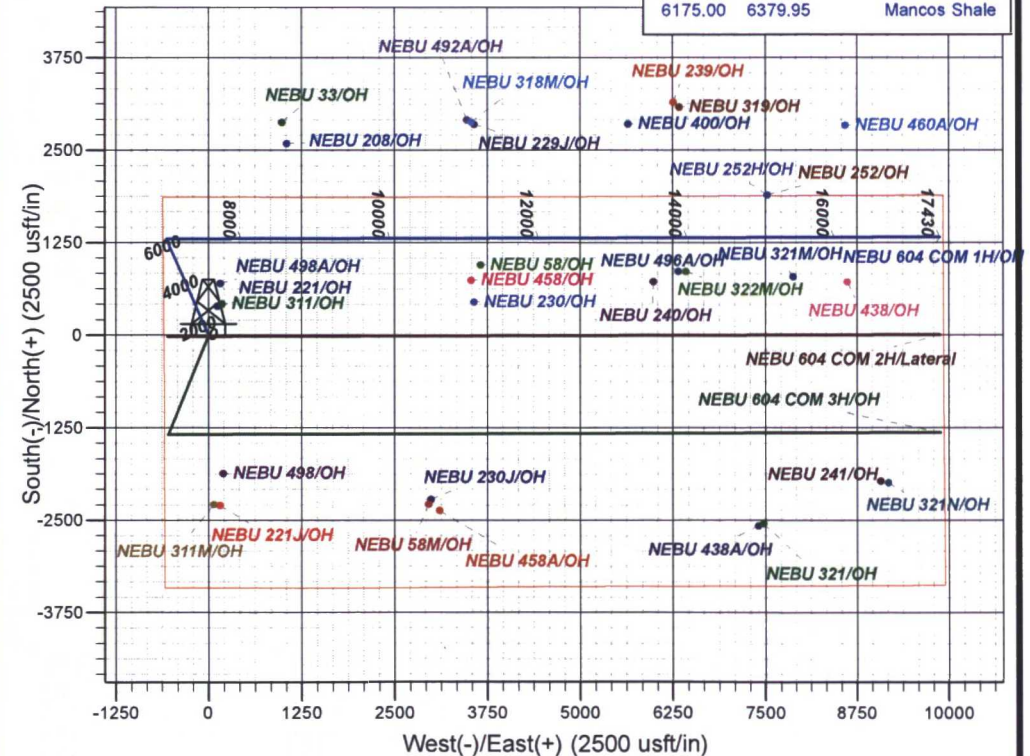
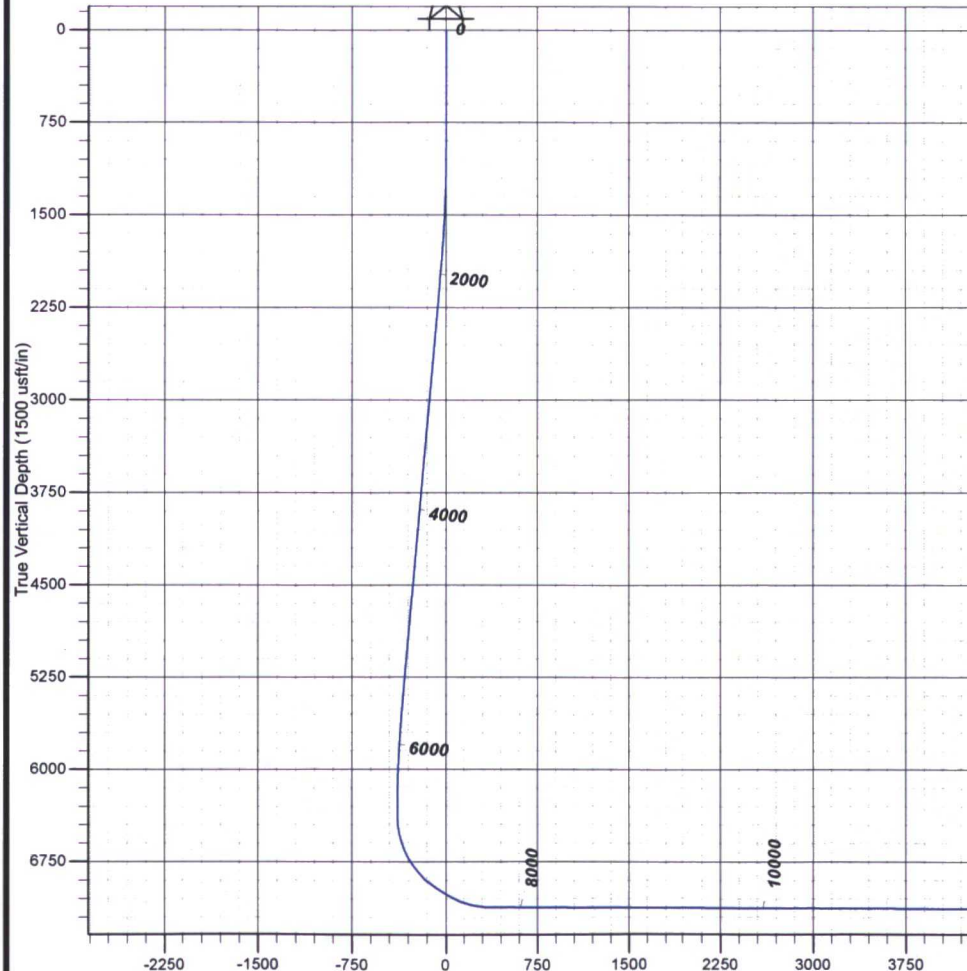
Name	TVD	+N/-S	+E/-W	Northing	Easting
NEBU 604 1H PBHL	7147.00	1325.44	9869.18	2148988.82	2821877.92
NEBU 604 1H LP	7117.00	1301.69	197.59	2148965.07	2812206.33

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00
1877.35	17.55	336.38	1863.70	122.13	-53.40	2.00	336.38	-36.67
5698.56	17.55	336.38	5507.11	1177.69	-514.95	0.00	0.00	-353.61
6575.91	0.00	0.00	6370.81	1299.82	-568.35	2.00	180.00	-390.28
7325.91	60.00	89.86	6991.06	1300.69	-210.25	8.00	89.86	-35.25
7385.91	60.00	89.86	7021.06	1300.82	-158.29	0.00	0.00	16.26
7758.69	89.82	89.86	7117.00	1301.69	197.59	8.00	0.00	369.09
17430.36	89.82	89.86	7147.00	1325.44	9869.18	0.00	0.00	9957.79

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
28.00	28.00	San Jose Ss
2385.00	2424.09	Ojo Alamo Ss
2505.00	2549.95	Kirtland
3000.00	3069.10	Fruitland
3195.00	3273.62	Lemon Coal Zone
3240.00	3320.81	Ignacio Coal Zone
3315.00	3399.47	Cottonwood Coal Zone
3335.00	3420.45	Pictured Cliffs Ss
5415.00	5601.96	Cliffhouse Ss
6175.00	6379.95	Mancos Shale



Vertical Section at 82.35° (1500 usft/in)



B.P.

San Juan County, NM NAD83

NEBU 604 Pad

NEBU 604 COM 1H

OH

Plan: Plan #2

Standard Planning Report

07 September, 2016



Scientific Drilling

www.scientificdrilling.com





Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Company:	B.P.	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Project:	San Juan County, NM NAD83	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site:	NEBU 604 Pad	North Reference:	Grid
Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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 604 Pad			
Site Position:		Northing:	2,147,663.38 usft	Latitude: 36.9016354
From:	Map	Easting:	2,812,008.74 usft	Longitude: -107.5292230
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence: 0.18 °

Well	NEBU 604 COM 1H			
Well Position	+N/-S	0.00 usft	Northing:	2,147,663.38 usft
	+E/-W	0.00 usft	Easting:	2,812,008.74 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 6,500.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/21/2016	9.15	63.55	50,151

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	82.35

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
1,877.35	17.55	336.38	1,863.70	122.13	-53.40	2.00	2.00	0.00	336.38	
5,698.56	17.55	336.38	5,507.11	1,177.69	-514.95	0.00	0.00	0.00	0.00	
6,575.91	0.00	0.00	6,370.81	1,299.82	-568.35	2.00	-2.00	0.00	180.00	
7,325.91	60.00	89.86	6,991.06	1,300.70	-210.25	8.00	8.00	0.00	89.86	
7,385.91	60.00	89.86	7,021.06	1,300.82	-158.29	0.00	0.00	0.00	0.00	
7,758.69	89.82	89.86	7,117.00	1,301.69	197.59	8.00	8.00	0.00	0.00	
17,430.36	89.82	89.86	7,147.00	1,325.44	9,869.18	0.00	0.00	0.00	0.00	NEBU 604 1H PBHL



Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Company:	B.P.	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Project:	San Juan County, NM NAD83	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site:	NEBU 604 Pad	North Reference:	Grid
Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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	0.00	0.00	0.00
28.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	0.00	0.00
San Jose Ss									
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
1,100.00	2.00	336.38	1,099.98	1.60	-0.70	-0.48	2.00	2.00	0.00
1,200.00	4.00	336.38	1,199.84	6.39	-2.80	-1.92	2.00	2.00	0.00
1,300.00	6.00	336.38	1,299.45	14.38	-6.29	-4.32	2.00	2.00	0.00
1,400.00	8.00	336.38	1,398.70	25.54	-11.17	-7.67	2.00	2.00	0.00
1,500.00	10.00	336.38	1,497.47	39.88	-17.44	-11.97	2.00	2.00	0.00
1,600.00	12.00	336.38	1,595.62	57.36	-25.08	-17.22	2.00	2.00	0.00
1,700.00	14.00	336.38	1,693.06	77.97	-34.09	-23.41	2.00	2.00	0.00
1,800.00	16.00	336.38	1,789.64	101.68	-44.46	-30.53	2.00	2.00	0.00
1,877.35	17.55	336.38	1,863.70	122.13	-53.40	-36.67	2.00	2.00	0.00
1,900.00	17.55	336.38	1,885.30	128.39	-56.14	-38.55	0.00	0.00	0.00
2,000.00	17.55	336.38	1,980.64	156.01	-68.22	-46.84	0.00	0.00	0.00
2,100.00	17.55	336.38	2,075.99	183.64	-80.30	-55.14	0.00	0.00	0.00
2,200.00	17.55	336.38	2,171.34	211.26	-92.37	-63.43	0.00	0.00	0.00
2,300.00	17.55	336.38	2,266.68	238.88	-104.45	-71.73	0.00	0.00	0.00
2,400.00	17.55	336.38	2,362.03	266.51	-116.53	-80.02	0.00	0.00	0.00
2,424.09	17.55	336.38	2,385.00	273.16	-119.44	-82.02	0.00	0.00	0.00
Ojo Alamo Ss									
2,500.00	17.55	336.38	2,457.38	294.13	-128.61	-88.31	0.00	0.00	0.00
2,549.95	17.55	336.38	2,505.00	307.93	-134.64	-92.46	0.00	0.00	0.00
Kirtland									
2,600.00	17.55	336.38	2,552.72	321.75	-140.69	-96.61	0.00	0.00	0.00
2,700.00	17.55	336.38	2,648.07	349.38	-152.77	-104.90	0.00	0.00	0.00
2,800.00	17.55	336.38	2,743.42	377.00	-164.85	-113.20	0.00	0.00	0.00
2,900.00	17.55	336.38	2,838.77	404.63	-176.92	-121.49	0.00	0.00	0.00
3,000.00	17.55	336.38	2,934.11	432.25	-189.00	-129.79	0.00	0.00	0.00
3,069.10	17.55	336.38	3,000.00	451.34	-197.35	-135.52	0.00	0.00	0.00
Fruitland									
3,100.00	17.55	336.38	3,029.46	459.87	-201.08	-138.08	0.00	0.00	0.00
3,200.00	17.55	336.38	3,124.81	487.50	-213.16	-146.37	0.00	0.00	0.00
3,273.62	17.55	336.38	3,195.00	507.83	-222.05	-152.48	0.00	0.00	0.00
Lemon Coal Zone									
3,300.00	17.55	336.38	3,220.15	515.12	-225.24	-154.67	0.00	0.00	0.00
3,320.81	17.55	336.38	3,240.00	520.87	-227.75	-156.39	0.00	0.00	0.00
Ignacio Coal Zone									
3,399.47	17.55	336.38	3,315.00	542.60	-237.25	-162.92	0.00	0.00	0.00
Cottonwood Coal Zone									
3,400.00	17.55	336.38	3,315.50	542.74	-237.32	-162.96	0.00	0.00	0.00
3,420.45	17.55	336.38	3,335.00	548.39	-239.79	-164.66	0.00	0.00	0.00
Pictured Cliffs Ss									
3,500.00	17.55	336.38	3,410.85	570.37	-249.39	-171.26	0.00	0.00	0.00



Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Company:	B.P.	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Project:	San Juan County, NM NAD83	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site:	NEBU 604 Pad	North Reference:	Grid
Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
3,600.00	17.55	336.38	3,506.19	597.99	-261.47	-179.55	0.00	0.00	0.00
3,700.00	17.55	336.38	3,601.54	625.61	-273.55	-187.84	0.00	0.00	0.00
3,800.00	17.55	336.38	3,696.89	653.24	-285.63	-196.14	0.00	0.00	0.00
3,900.00	17.55	336.38	3,792.24	680.86	-297.71	-204.43	0.00	0.00	0.00
4,000.00	17.55	336.38	3,887.58	708.48	-309.79	-212.73	0.00	0.00	0.00
4,100.00	17.55	336.38	3,982.93	736.11	-321.87	-221.02	0.00	0.00	0.00
4,200.00	17.55	336.38	4,078.28	763.73	-333.94	-229.32	0.00	0.00	0.00
4,300.00	17.55	336.38	4,173.62	791.35	-346.02	-237.61	0.00	0.00	0.00
4,400.00	17.55	336.38	4,268.97	818.98	-358.10	-245.90	0.00	0.00	0.00
4,500.00	17.55	336.38	4,364.32	846.60	-370.18	-254.20	0.00	0.00	0.00
4,600.00	17.55	336.38	4,459.67	874.23	-382.26	-262.49	0.00	0.00	0.00
4,700.00	17.55	336.38	4,555.01	901.85	-394.34	-270.79	0.00	0.00	0.00
4,800.00	17.55	336.38	4,650.36	929.47	-406.41	-279.08	0.00	0.00	0.00
4,900.00	17.55	336.38	4,745.71	957.10	-418.49	-287.37	0.00	0.00	0.00
5,000.00	17.55	336.38	4,841.05	984.72	-430.57	-295.67	0.00	0.00	0.00
5,100.00	17.55	336.38	4,936.40	1,012.34	-442.65	-303.96	0.00	0.00	0.00
5,200.00	17.55	336.38	5,031.75	1,039.97	-454.73	-312.26	0.00	0.00	0.00
5,300.00	17.55	336.38	5,127.09	1,067.59	-466.81	-320.55	0.00	0.00	0.00
5,400.00	17.55	336.38	5,222.44	1,095.21	-478.89	-328.84	0.00	0.00	0.00
5,500.00	17.55	336.38	5,317.79	1,122.84	-490.96	-337.14	0.00	0.00	0.00
5,600.00	17.55	336.38	5,413.14	1,150.46	-503.04	-345.43	0.00	0.00	0.00
5,601.96	17.55	336.38	5,415.00	1,151.00	-503.28	-345.60	0.00	0.00	0.00
Cliffhouse Ss									
5,698.56	17.55	336.38	5,507.11	1,177.69	-514.95	-353.61	0.00	0.00	0.00
5,700.00	17.52	336.38	5,508.48	1,178.08	-515.12	-353.73	2.00	-2.00	0.00
5,800.00	15.52	336.38	5,604.35	1,204.13	-526.51	-361.55	2.00	-2.00	0.00
5,900.00	13.52	336.38	5,701.15	1,227.10	-536.55	-368.44	2.00	-2.00	0.00
6,000.00	11.52	336.38	5,798.77	1,246.96	-545.24	-374.41	2.00	-2.00	0.00
6,100.00	9.52	336.38	5,897.08	1,263.68	-552.55	-379.43	2.00	-2.00	0.00
6,200.00	7.52	336.38	5,995.98	1,277.26	-558.48	-383.50	2.00	-2.00	0.00
6,300.00	5.52	336.38	6,095.33	1,287.66	-563.03	-386.63	2.00	-2.00	0.00
6,379.95	3.92	336.38	6,175.00	1,293.68	-565.67	-388.44	2.00	-2.00	0.00
Mancos Shale									
6,400.00	3.52	336.38	6,195.01	1,294.87	-566.19	-388.79	2.00	-2.00	0.00
6,500.00	1.52	336.38	6,294.91	1,298.90	-567.95	-390.00	2.00	-2.00	0.00
6,575.91	0.00	0.00	6,370.81	1,299.82	-568.35	-390.28	2.00	-2.00	0.00
6,600.00	1.93	89.86	6,394.89	1,299.82	-567.94	-389.88	8.00	8.00	0.00
6,700.00	9.93	89.86	6,494.28	1,299.85	-557.63	-379.65	8.00	8.00	0.00
6,800.00	17.93	89.86	6,591.26	1,299.90	-533.58	-355.81	8.00	8.00	0.00
6,900.00	25.93	89.86	6,683.95	1,300.00	-496.27	-318.81	8.00	8.00	0.00
7,000.00	33.93	89.86	6,770.55	1,300.12	-446.42	-269.39	8.00	8.00	0.00
7,100.00	41.93	89.86	6,849.36	1,300.27	-385.00	-208.50	8.00	8.00	0.00
7,200.00	49.93	89.86	6,918.86	1,300.44	-313.21	-137.33	8.00	8.00	0.00
7,300.00	57.93	89.86	6,977.70	1,300.64	-232.45	-57.26	8.00	8.00	0.00
7,325.91	60.00	89.86	6,991.06	1,300.70	-210.25	-35.25	8.00	8.00	0.00
7,385.91	60.00	89.86	7,021.06	1,300.82	-158.29	16.26	0.00	0.00	0.00
7,400.00	61.13	89.86	7,027.98	1,300.85	-146.02	28.43	8.00	8.00	0.00
7,500.00	69.13	89.86	7,070.01	1,301.07	-55.37	118.30	8.00	8.00	0.00
7,600.00	77.13	89.86	7,099.01	1,301.31	40.25	213.10	8.00	8.00	0.00
7,688.50	84.21	89.86	7,113.35	1,301.52	127.52	299.63	8.00	8.00	0.00
NEBU 604 1H LP REV									
7,700.00	85.13	89.86	7,114.42	1,301.55	138.97	310.98	8.00	8.00	0.00
7,758.69	89.82	89.86	7,117.00	1,301.69	197.59	369.09	8.00	8.00	0.00
NEBU 604 1H LP									



Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Company:	B.P.	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Project:	San Juan County, NM NAD83	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site:	NEBU 604 Pad	North Reference:	Grid
Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
7,800.00	89.82	89.86	7,117.13	1,301.80	238.89	410.05	0.00	0.00	0.00
7,900.00	89.82	89.86	7,117.44	1,302.04	338.89	509.19	0.00	0.00	0.00
8,000.00	89.82	89.86	7,117.75	1,302.29	438.89	608.33	0.00	0.00	0.00
8,100.00	89.82	89.86	7,118.06	1,302.53	538.89	707.47	0.00	0.00	0.00
8,200.00	89.82	89.86	7,118.37	1,302.78	638.89	806.61	0.00	0.00	0.00
8,300.00	89.82	89.86	7,118.68	1,303.02	738.89	905.76	0.00	0.00	0.00
8,400.00	89.82	89.86	7,118.99	1,303.27	838.89	1,004.90	0.00	0.00	0.00
8,500.00	89.82	89.86	7,119.30	1,303.51	938.89	1,104.04	0.00	0.00	0.00
8,600.00	89.82	89.86	7,119.61	1,303.76	1,038.89	1,203.18	0.00	0.00	0.00
8,700.00	89.82	89.86	7,119.92	1,304.00	1,138.89	1,302.32	0.00	0.00	0.00
8,800.00	89.82	89.86	7,120.23	1,304.25	1,238.89	1,401.47	0.00	0.00	0.00
8,900.00	89.82	89.86	7,120.54	1,304.50	1,338.89	1,500.61	0.00	0.00	0.00
9,000.00	89.82	89.86	7,120.85	1,304.74	1,438.89	1,599.75	0.00	0.00	0.00
9,100.00	89.82	89.86	7,121.16	1,304.99	1,538.88	1,698.89	0.00	0.00	0.00
9,200.00	89.82	89.86	7,121.47	1,305.23	1,638.88	1,798.03	0.00	0.00	0.00
9,300.00	89.82	89.86	7,121.78	1,305.48	1,738.88	1,897.18	0.00	0.00	0.00
9,400.00	89.82	89.86	7,122.09	1,305.72	1,838.88	1,996.32	0.00	0.00	0.00
9,500.00	89.82	89.86	7,122.40	1,305.97	1,938.88	2,095.46	0.00	0.00	0.00
9,600.00	89.82	89.86	7,122.71	1,306.21	2,038.88	2,194.60	0.00	0.00	0.00
9,700.00	89.82	89.86	7,123.02	1,306.46	2,138.88	2,293.75	0.00	0.00	0.00
9,800.00	89.82	89.86	7,123.33	1,306.71	2,238.88	2,392.89	0.00	0.00	0.00
9,900.00	89.82	89.86	7,123.65	1,306.95	2,338.88	2,492.03	0.00	0.00	0.00
10,000.00	89.82	89.86	7,123.96	1,307.20	2,438.88	2,591.17	0.00	0.00	0.00
10,100.00	89.82	89.86	7,124.27	1,307.44	2,538.88	2,690.31	0.00	0.00	0.00
10,200.00	89.82	89.86	7,124.58	1,307.69	2,638.88	2,789.46	0.00	0.00	0.00
10,300.00	89.82	89.86	7,124.89	1,307.93	2,738.88	2,888.60	0.00	0.00	0.00
10,400.00	89.82	89.86	7,125.20	1,308.18	2,838.87	2,987.74	0.00	0.00	0.00
10,500.00	89.82	89.86	7,125.51	1,308.42	2,938.87	3,086.88	0.00	0.00	0.00
10,600.00	89.82	89.86	7,125.82	1,308.67	3,038.87	3,186.02	0.00	0.00	0.00
10,700.00	89.82	89.86	7,126.13	1,308.92	3,138.87	3,285.17	0.00	0.00	0.00
10,800.00	89.82	89.86	7,126.44	1,309.16	3,238.87	3,384.31	0.00	0.00	0.00
10,900.00	89.82	89.86	7,126.75	1,309.41	3,338.87	3,483.45	0.00	0.00	0.00
11,000.00	89.82	89.86	7,127.06	1,309.65	3,438.87	3,582.59	0.00	0.00	0.00
11,100.00	89.82	89.86	7,127.37	1,309.90	3,538.87	3,681.73	0.00	0.00	0.00
11,200.00	89.82	89.86	7,127.68	1,310.14	3,638.87	3,780.88	0.00	0.00	0.00
11,300.00	89.82	89.86	7,127.99	1,310.39	3,738.87	3,880.02	0.00	0.00	0.00
11,400.00	89.82	89.86	7,128.30	1,310.63	3,838.87	3,979.16	0.00	0.00	0.00
11,500.00	89.82	89.86	7,128.61	1,310.88	3,938.87	4,078.30	0.00	0.00	0.00
11,600.00	89.82	89.86	7,128.92	1,311.13	4,038.87	4,177.45	0.00	0.00	0.00
11,700.00	89.82	89.86	7,129.23	1,311.37	4,138.86	4,276.59	0.00	0.00	0.00
11,800.00	89.82	89.86	7,129.54	1,311.62	4,238.86	4,375.73	0.00	0.00	0.00
11,900.00	89.82	89.86	7,129.85	1,311.86	4,338.86	4,474.87	0.00	0.00	0.00
12,000.00	89.82	89.86	7,130.16	1,312.11	4,438.86	4,574.01	0.00	0.00	0.00
12,100.00	89.82	89.86	7,130.47	1,312.35	4,538.86	4,673.16	0.00	0.00	0.00
12,200.00	89.82	89.86	7,130.78	1,312.60	4,638.86	4,772.30	0.00	0.00	0.00
12,300.00	89.82	89.86	7,131.09	1,312.84	4,738.86	4,871.44	0.00	0.00	0.00
12,400.00	89.82	89.86	7,131.40	1,313.09	4,838.86	4,970.58	0.00	0.00	0.00
12,500.00	89.82	89.86	7,131.71	1,313.33	4,938.86	5,069.72	0.00	0.00	0.00
12,600.00	89.82	89.86	7,132.02	1,313.58	5,038.86	5,168.87	0.00	0.00	0.00
12,700.00	89.82	89.86	7,132.33	1,313.83	5,138.86	5,268.01	0.00	0.00	0.00
12,800.00	89.82	89.86	7,132.64	1,314.07	5,238.86	5,367.15	0.00	0.00	0.00
12,900.00	89.82	89.86	7,132.95	1,314.32	5,338.86	5,466.29	0.00	0.00	0.00
13,000.00	89.82	89.86	7,133.26	1,314.56	5,438.85	5,565.43	0.00	0.00	0.00
13,100.00	89.82	89.86	7,133.57	1,314.81	5,538.85	5,664.58	0.00	0.00	0.00



Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Company:	B.P.	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Project:	San Juan County, NM NAD83	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site:	NEBU 604 Pad	North Reference:	Grid
Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
13,200.00	89.82	89.86	7,133.88	1,315.05	5,638.85	5,763.72	0.00	0.00	0.00
13,300.00	89.82	89.86	7,134.19	1,315.30	5,738.85	5,862.86	0.00	0.00	0.00
13,400.00	89.82	89.86	7,134.50	1,315.54	5,838.85	5,962.00	0.00	0.00	0.00
13,500.00	89.82	89.86	7,134.81	1,315.79	5,938.85	6,061.14	0.00	0.00	0.00
13,600.00	89.82	89.86	7,135.12	1,316.04	6,038.85	6,160.29	0.00	0.00	0.00
13,700.00	89.82	89.86	7,135.43	1,316.28	6,138.85	6,259.43	0.00	0.00	0.00
13,800.00	89.82	89.86	7,135.74	1,316.53	6,238.85	6,358.57	0.00	0.00	0.00
13,900.00	89.82	89.86	7,136.05	1,316.77	6,338.85	6,457.71	0.00	0.00	0.00
14,000.00	89.82	89.86	7,136.36	1,317.02	6,438.85	6,556.86	0.00	0.00	0.00
14,100.00	89.82	89.86	7,136.67	1,317.26	6,538.85	6,656.00	0.00	0.00	0.00
14,200.00	89.82	89.86	7,136.98	1,317.51	6,638.84	6,755.14	0.00	0.00	0.00
14,300.00	89.82	89.86	7,137.29	1,317.75	6,738.84	6,854.28	0.00	0.00	0.00
14,400.00	89.82	89.86	7,137.60	1,318.00	6,838.84	6,953.42	0.00	0.00	0.00
14,500.00	89.82	89.86	7,137.91	1,318.25	6,938.84	7,052.57	0.00	0.00	0.00
14,600.00	89.82	89.86	7,138.22	1,318.49	7,038.84	7,151.71	0.00	0.00	0.00
14,700.00	89.82	89.86	7,138.53	1,318.74	7,138.84	7,250.85	0.00	0.00	0.00
14,800.00	89.82	89.86	7,138.84	1,318.98	7,238.84	7,349.99	0.00	0.00	0.00
14,900.00	89.82	89.86	7,139.15	1,319.23	7,338.84	7,449.13	0.00	0.00	0.00
15,000.00	89.82	89.86	7,139.46	1,319.47	7,438.84	7,548.28	0.00	0.00	0.00
15,100.00	89.82	89.86	7,139.77	1,319.72	7,538.84	7,647.42	0.00	0.00	0.00
15,200.00	89.82	89.86	7,140.08	1,319.96	7,638.84	7,746.56	0.00	0.00	0.00
15,300.00	89.82	89.86	7,140.39	1,320.21	7,738.84	7,845.70	0.00	0.00	0.00
15,400.00	89.82	89.86	7,140.70	1,320.46	7,838.84	7,944.84	0.00	0.00	0.00
15,500.00	89.82	89.86	7,141.01	1,320.70	7,938.83	8,043.99	0.00	0.00	0.00
15,600.00	89.82	89.86	7,141.32	1,320.95	8,038.83	8,143.13	0.00	0.00	0.00
15,700.00	89.82	89.86	7,141.63	1,321.19	8,138.83	8,242.27	0.00	0.00	0.00
15,800.00	89.82	89.86	7,141.94	1,321.44	8,238.83	8,341.41	0.00	0.00	0.00
15,900.00	89.82	89.86	7,142.25	1,321.68	8,338.83	8,440.56	0.00	0.00	0.00
16,000.00	89.82	89.86	7,142.56	1,321.93	8,438.83	8,539.70	0.00	0.00	0.00
16,100.00	89.82	89.86	7,142.87	1,322.17	8,538.83	8,638.84	0.00	0.00	0.00
16,200.00	89.82	89.86	7,143.18	1,322.42	8,638.83	8,737.98	0.00	0.00	0.00
16,300.00	89.82	89.86	7,143.49	1,322.66	8,738.83	8,837.12	0.00	0.00	0.00
16,400.00	89.82	89.86	7,143.80	1,322.91	8,838.83	8,936.27	0.00	0.00	0.00
16,500.00	89.82	89.86	7,144.11	1,323.16	8,938.83	9,035.41	0.00	0.00	0.00
16,600.00	89.82	89.86	7,144.42	1,323.40	9,038.83	9,134.55	0.00	0.00	0.00
16,700.00	89.82	89.86	7,144.73	1,323.65	9,138.83	9,233.69	0.00	0.00	0.00
16,800.00	89.82	89.86	7,145.05	1,323.89	9,238.82	9,332.83	0.00	0.00	0.00
16,900.00	89.82	89.86	7,145.36	1,324.14	9,338.82	9,431.98	0.00	0.00	0.00
17,000.00	89.82	89.86	7,145.67	1,324.38	9,438.82	9,531.12	0.00	0.00	0.00
17,100.00	89.82	89.86	7,145.98	1,324.63	9,538.82	9,630.26	0.00	0.00	0.00
17,200.00	89.82	89.86	7,146.29	1,324.87	9,638.82	9,729.40	0.00	0.00	0.00
17,300.00	89.82	89.86	7,146.60	1,325.12	9,738.82	9,828.54	0.00	0.00	0.00
17,400.00	89.82	89.86	7,146.91	1,325.37	9,838.82	9,927.69	0.00	0.00	0.00
17,430.36	89.82	89.86	7,147.00	1,325.44	9,869.18	9,957.79	0.00	0.00	0.00
NEBU 604 1H PBHL REV - NEBU 604 1H PBHL									



Planning Report



Database:	Grand Junction District	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Company:	B.P.	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Project:	San Juan County, NM NAD83	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site:	NEBU 604 Pad	North Reference:	Grid
Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NEBU 604 1H LP - plan misses target center by 0.01usft at 7758.69usft MD (7117.00 TVD, 1301.69 N, 197.59 E) - Point	0.00	0.01	7,117.00	1,301.69	197.59	2,148,965.07	2,812,206.33	36.9052091	-107.5285330
NEBU 604 1H PBHL - plan hits target center - Point	0.00	0.00	7,147.00	1,325.44	9,869.18	2,148,988.82	2,821,877.92	36.9051848	-107.4954533

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
28.00	28.00	San Jose Ss		0.00	0.00
2,424.09	2,385.00	Ojo Alamo Ss		0.00	0.00
2,549.95	2,505.00	Kirtland		0.00	0.00
3,069.10	3,000.00	Fruitland		0.00	0.00
3,273.62	3,195.00	Lemon Coal Zone		0.00	0.00
3,320.81	3,240.00	Ignacio Coal Zone		0.00	0.00
3,399.47	3,315.00	Cottonwood Coal Zone		0.00	0.00
3,420.45	3,335.00	Pictured Cliffs Ss		0.00	0.00
5,601.96	5,415.00	Cliffhouse Ss		0.00	0.00
6,379.95	6,175.00	Mancos Shale		0.00	0.00



B.P.

San Juan County, NM NAD83

NEBU 604 Pad

NEBU 604 COM 1H

OH

Plan #2

Anticollision Report

07 September, 2016



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Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Reference	Plan #2
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.00usft
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 30,000.00 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program	Date	9/7/2016
From (usft)	To (usft)	Survey (Wellbore)
0.00	17,430.36	Plan #2 (OH)
		Tool Name
		SDI MWD
		Description
		SDI MWD - Standard ver 1.0.1

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NEBU 604 Pad						
NEBU 208 - OH - OH	4,128.26	3,675.00	2,328.43	2,169.17	14.620	CC, ES
NEBU 208 - OH - OH	4,300.00	3,675.00	2,334.76	2,174.58	14.576	SF
NEBU 221 - OH - OH	100.00	84.17	409.04	407.27	231.392	CC, ES
NEBU 221 - OH - OH	17,430.36	100.00	12,058.36	11,967.39	132.564	SF
NEBU 221J - OH - OH	1,000.00	954.80	2,307.76	2,269.46	60.256	CC
NEBU 221J - OH - OH	1,100.00	1,054.78	2,309.40	2,266.90	54.337	ES
NEBU 221J - OH - OH	3,800.00	3,634.00	2,988.27	2,840.62	20.239	SF
NEBU 229J - OH - OH	4,600.00	3,680.00	4,488.19	4,322.87	27.149	SF
NEBU 229J - OH - OH	11,126.35	3,680.00	3,777.07	3,665.49	33.852	CC
NEBU 229J - OH - OH	11,200.00	3,680.00	3,777.79	3,665.32	33.591	ES
NEBU 230 - OH - OH	100.00	98.12	3,594.70	3,592.65	1,756.346	CC, ES
NEBU 230 - OH - OH	17,430.36	100.00	9,493.43	9,403.46	105.521	SF
NEBU 230J - OH - OH	122.08	79.30	3,724.33	3,722.61	2,165.366	CC
NEBU 230J - OH - OH	200.00	100.00	3,724.77	3,722.46	1,613.117	ES
NEBU 230J - OH - OH	17,430.36	100.00	10,438.17	10,278.01	65.174	SF
NEBU 239 - OH - OH	13,810.87	3,675.00	3,908.73	3,747.56	24.253	CC
NEBU 239 - OH - OH	13,900.00	3,675.00	3,909.74	3,747.38	24.080	ES
NEBU 239 - OH - OH	15,100.00	3,675.00	4,115.82	3,937.30	23.055	SF
NEBU 240 - OH - OH	0.00	54.55	6,025.13			
NEBU 240 - OH - OH	100.00	100.00	6,025.38	6,023.29	2,890.857	ES
NEBU 240 - OH - OH	17,430.36	100.00	8,118.41	8,033.26	95.339	SF
NEBU 241 - OH - OH	16,609.19	3,550.00	4,780.57	4,477.57	15.777	CC
NEBU 241 - OH - OH	16,700.00	3,550.00	4,781.43	4,476.78	15.695	ES
NEBU 241 - OH - OH	17,430.36	3,550.00	4,850.59	4,529.81	15.122	SF
NEBU 252 - OH - OH	15,060.20	100.00	7,017.07	6,953.13	109.747	CC
NEBU 252 - OH - OH	15,100.00	100.00	7,017.18	6,952.94	109.233	ES
NEBU 252 - OH - OH	17,430.36	100.00	7,406.55	7,324.61	90.394	SF
NEBU 252H - OH - OH	15,060.20	100.00	7,016.09	6,952.16	109.732	CC
NEBU 252H - OH - OH	15,100.00	100.00	7,016.21	6,951.97	109.218	ES
NEBU 252H - OH - OH	17,430.36	100.00	7,405.62	7,323.69	90.382	SF
NEBU 311 - OH - OH	2,482.77	2,426.21	331.37	228.45	3.220	CC
NEBU 311 - OH - OH	2,600.00	2,537.98	333.25	225.28	3.087	ES
NEBU 311 - OH - OH	7,800.00	7,102.39	881.83	572.17	2.848	SF
NEBU 311M - OH - OH	1,000.00	955.69	2,291.62	2,253.29	59.779	CC
NEBU 311M - OH - OH	1,100.00	1,055.67	2,293.24	2,250.71	53.911	ES
NEBU 311M - OH - OH	8,800.00	7,075.92	3,781.14	3,447.45	11.331	SF
NEBU 318M - OH - OH	11,098.65	7,130.33	1,570.22	1,188.88	4.118	CC

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NEBU 604 Pad						
NEBU 318M - OH - OH	11,100.00	7,130.34	1,570.22	1,188.85	4.117	ES
NEBU 318M - OH - OH	11,300.00	7,130.96	1,583.08	1,196.72	4.097	SF
NEBU 319 - OH - OH	13,898.78	7,124.63	1,768.48	1,317.42	3.921	CC
NEBU 319 - OH - OH	13,900.00	7,124.63	1,768.48	1,317.39	3.920	ES
NEBU 319 - OH - OH	14,100.00	7,125.25	1,779.89	1,323.75	3.902	SF
NEBU 321 - OH - OH	15,017.65	6,977.86	3,869.39	3,350.39	7.456	CC
NEBU 321 - OH - OH	15,100.00	6,978.11	3,870.26	3,349.19	7.427	ES
NEBU 321 - OH - OH	15,900.00	6,980.59	3,968.71	3,422.86	7.271	SF
NEBU 321M - OH - OH	15,436.84	7,037.53	530.73	-3.47	0.993	Stop Drilling, CC, ES, SF
NEBU 321N - OH - OH	16,703.97	100.00	7,666.76	7,522.18	53.028	CC
NEBU 321N - OH - OH	16,800.00	100.00	7,667.36	7,521.56	52.588	ES
NEBU 321N - OH - OH	17,430.36	100.00	7,701.09	7,545.72	49.565	SF
NEBU 322M - OH - OH	13,980.70	7,198.95	458.16	-37.36	0.925	Stop Drilling, CC
NEBU 322M - OH - OH	14,000.00	7,199.01	458.57	-37.44	0.925	Stop Drilling, ES, SF
NEBU 33 - OH - OH	6,200.00	5,885.00	2,226.49	1,966.14	8.552	SF
NEBU 33 - OH - OH	8,545.69	5,885.00	2,008.11	1,792.25	9.303	CC
NEBU 33 - OH - OH	8,600.00	5,885.00	2,008.84	1,792.05	9.266	ES
NEBU 400 - OH - OH	13,200.87	3,715.00	3,759.69	3,621.57	27.219	CC, ES
NEBU 400 - OH - OH	14,500.00	3,715.00	3,977.82	3,823.75	25.818	SF
NEBU 438 - OH - OH	16,164.72	3,382.00	3,713.99	3,608.17	35.098	CC
NEBU 438 - OH - OH	16,200.00	3,382.00	3,714.16	3,608.05	35.003	ES
NEBU 438 - OH - OH	17,400.00	3,382.00	3,914.03	3,796.86	33.405	SF
NEBU 438A - OH - OH	248.18	83.86	7,834.39	7,832.30	3,740.490	CC
NEBU 438A - OH - OH	15,100.00	100.00	7,905.22	7,772.99	59.782	ES
NEBU 438A - OH - OH	17,430.36	100.00	8,290.05	8,118.78	48.403	SF
NEBU 458 - OH - OH	1,000.00	988.35	3,608.59	3,568.95	91.031	CC
NEBU 458 - OH - OH	1,600.00	1,583.97	3,621.85	3,556.96	55.814	ES
NEBU 458 - OH - OH	3,700.00	3,441.00	3,809.62	3,660.42	25.534	SF
NEBU 458A - OH - OH	1,000.00	955.83	3,906.47	3,868.13	101.889	CC
NEBU 458A - OH - OH	1,100.00	1,055.81	3,908.00	3,865.45	91.857	ES
NEBU 458A - OH - OH	14,100.00	3,470.00	6,206.68	5,953.62	24.527	SF
NEBU 460A - OH - OH	16,130.89	100.00	7,168.76	7,084.10	84.676	CC
NEBU 460A - OH - OH	16,200.00	100.00	7,169.10	7,083.82	84.066	ES
NEBU 460A - OH - OH	17,430.36	100.00	7,285.59	7,189.31	75.671	SF
NEBU 492A - OH - OH	4,500.00	3,453.00	4,459.74	4,304.19	28.672	SF
NEBU 492A - OH - OH	11,028.72	3,453.00	4,009.58	3,904.36	38.107	CC
NEBU 492A - OH - OH	11,100.00	3,453.00	4,010.21	3,904.14	37.809	ES
NEBU 496A - OH - OH	4,500.00	3,615.00	6,740.65	6,580.07	41.977	SF
NEBU 496A - OH - OH	13,870.95	3,615.00	3,607.48	3,529.69	46.379	CC
NEBU 496A - OH - OH	13,900.00	3,615.00	3,607.59	3,529.58	46.243	ES
NEBU 498 - OH - OH	1,000.00	933.39	1,879.94	1,842.50	50.208	CC
NEBU 498 - OH - OH	1,100.00	1,033.37	1,881.60	1,839.96	45.182	ES
NEBU 498 - OH - OH	3,600.00	3,385.00	2,510.07	2,372.89	18.297	SF
NEBU 498A - OH - OH	3,355.95	3,271.22	423.47	281.74	2.988	CC
NEBU 498A - OH - OH	3,600.00	3,503.91	429.82	277.65	2.825	ES, SF
NEBU 58 - OH - OH	11,216.56	7,129.04	360.41	-47.87	0.883	Stop Drilling, CC, ES, SF
NEBU 58M - OH - OH	10,507.81	7,083.37	3,590.27	3,205.30	9.326	CC
NEBU 58M - OH - OH	10,600.00	7,083.66	3,591.46	3,204.20	9.274	ES
NEBU 58M - OH - OH	11,500.00	7,086.45	3,724.85	3,310.09	8.981	SF
NEBU 604 COM 2H - Lateral - Plan #2	300.00	300.00	20.00	19.47	37.459	CC, ES
NEBU 604 COM 2H - Lateral - Plan #2	17,430.36	17,229.77	1,320.00	1,004.11	4.179	SF
NEBU 604 COM 2H - Pilot - Plan #1	300.00	300.00	20.00	19.47	37.459	CC, ES
NEBU 604 COM 2H - Pilot - Plan #1	500.00	499.21	23.29	22.31	23.684	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NEBU 604 Pad						
NEBU 604 COM 3H - OH - Plan #2	1,000.00	1,000.00	40.00	35.78	9.491	CC, ES
NEBU 604 COM 3H - OH - Plan #2	17,430.36	17,402.03	2,640.00	2,126.49	5.141	SF
NEBU 604 COM 4H - Lateral - Plan #1	1,046.64	1,044.50	58.20	53.79	13.192	CC, ES
NEBU 604 COM 4H - Lateral - Plan #1	16,800.00	16,580.17	971.61	490.27	2.019	SF
NEBU 604 COM 5H - OH - Plan #1	1,000.00	997.00	80.00	75.79	19.012	CC, ES
NEBU 604 COM 5H - OH - Plan #1	16,900.00	16,745.13	1,647.16	1,165.28	3.418	SF
NEBU 604 COM 6H - OH - Plan #1	800.00	797.00	100.00	96.69	30.225	CC, ES
NEBU 604 COM 6H - OH - Plan #1	17,100.00	16,636.27	2,314.26	1,823.63	4.717	SF
NEBU 604 COM 7H - OH - Plan #1	1,000.00	997.00	120.01	115.80	28.522	CC, ES
NEBU 604 COM 7H - OH - Plan #1	17,300.00	16,969.28	3,003.81	2,507.84	6.056	SF
NEBU 604 COM 8H - OH - Plan #1	800.00	797.00	140.00	136.69	42.316	CC, ES
NEBU 604 COM 8H - OH - Plan #1	17,430.36	17,048.46	3,670.24	3,169.22	7.325	SF

Offset Design

NEBU 604 Pad - NEBU 208 - OH - OH

Offset Site Error: 0.00 usft

Survey Program: 100-UNKNOWN

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	25.56	0.00	0.00	0.51	22.05	2,588.81	1,048.78	2,793.18				
100.00	100.00	125.56	100.00	0.08	3.02	22.05	2,588.81	1,048.78	2,793.18	2,790.08	3.11	899.088	
200.00	200.00	225.56	200.00	0.31	7.02	22.05	2,588.81	1,048.78	2,793.18	2,785.85	7.33	380.986	
300.00	300.00	325.56	300.00	0.53	11.02	22.05	2,588.81	1,048.78	2,793.18	2,781.63	11.56	241.704	
400.00	400.00	425.56	400.00	0.76	15.02	22.05	2,588.81	1,048.78	2,793.18	2,777.40	15.78	176.997	
500.00	500.00	525.56	500.00	0.98	19.02	22.05	2,588.81	1,048.78	2,793.18	2,773.18	20.01	139.619	
600.00	600.00	625.56	600.00	1.21	23.02	22.05	2,588.81	1,048.78	2,793.18	2,768.95	24.23	115.275	
700.00	700.00	725.56	700.00	1.43	27.02	22.05	2,588.81	1,048.78	2,793.18	2,764.73	28.46	98.160	
800.00	800.00	825.56	800.00	1.66	31.02	22.05	2,588.81	1,048.78	2,793.18	2,760.50	32.68	85.471	
900.00	900.00	925.56	900.00	1.88	35.02	22.05	2,588.81	1,048.78	2,793.18	2,756.28	36.90	75.686	
1,000.00	1,000.00	1,025.56	1,000.00	2.11	39.02	22.05	2,588.81	1,048.78	2,793.18	2,752.05	41.13	67.912	
1,100.00	1,099.98	1,125.54	1,099.98	2.33	43.02	45.71	2,588.81	1,048.78	2,791.96	2,746.62	45.34	61.578	
1,200.00	1,199.84	1,225.40	1,199.84	2.56	47.02	45.84	2,588.81	1,048.78	2,788.31	2,738.80	49.52	56.311	
1,300.00	1,299.45	1,325.01	1,299.45	2.79	51.00	46.06	2,588.81	1,048.78	2,782.24	2,728.59	53.65	51.857	
1,400.00	1,398.70	1,424.26	1,398.70	3.03	54.97	46.36	2,588.81	1,048.78	2,773.77	2,716.03	57.74	48.038	
1,500.00	1,497.47	1,523.03	1,497.47	3.30	58.92	46.75	2,588.81	1,048.78	2,762.95	2,701.17	61.78	44.722	
1,600.00	1,595.62	1,621.18	1,595.62	3.61	62.85	47.24	2,588.81	1,048.78	2,749.80	2,684.03	65.77	41.809	
1,700.00	1,693.06	1,718.62	1,693.06	3.95	66.74	47.81	2,588.81	1,048.78	2,734.40	2,664.69	69.71	39.225	
1,800.00	1,789.64	1,815.20	1,789.64	4.35	70.61	48.47	2,588.81	1,048.78	2,716.80	2,643.19	73.61	36.908	
1,900.00	1,885.30	1,910.86	1,885.30	4.80	74.43	49.16	2,588.81	1,048.78	2,697.13	2,619.59	77.54	34.783	
2,000.00	1,980.64	2,006.20	1,980.64	5.29	78.25	49.63	2,588.81	1,048.78	2,676.97	2,595.25	81.72	32.758	
2,100.00	2,075.99	2,101.55	2,075.99	5.80	82.06	50.11	2,588.81	1,048.78	2,657.00	2,571.08	85.92	30.923	
2,200.00	2,171.34	2,196.90	2,171.34	6.33	85.88	50.60	2,588.81	1,048.78	2,637.23	2,547.08	90.15	29.255	
2,300.00	2,266.68	2,292.24	2,266.68	6.87	89.69	51.10	2,588.81	1,048.78	2,617.65	2,523.26	94.39	27.733	
2,400.00	2,362.03	2,387.59	2,362.03	7.41	93.50	51.60	2,588.81	1,048.78	2,598.28	2,499.63	98.64	26.340	
2,500.00	2,457.38	2,482.94	2,457.38	7.97	97.32	52.11	2,588.81	1,048.78	2,579.11	2,476.19	102.91	25.061	
2,600.00	2,552.72	2,578.28	2,552.72	8.53	101.13	52.63	2,588.81	1,048.78	2,560.15	2,452.95	107.20	23.883	
2,700.00	2,648.07	2,673.63	2,648.07	9.10	104.95	53.15	2,588.81	1,048.78	2,541.41	2,429.92	111.49	22.794	
2,800.00	2,743.42	2,768.98	2,743.42	9.67	108.76	53.68	2,588.81	1,048.78	2,522.89	2,407.09	115.80	21.786	
2,900.00	2,838.77	2,864.33	2,838.77	10.24	112.57	54.22	2,588.81	1,048.78	2,504.60	2,384.48	120.12	20.850	
3,000.00	2,934.11	2,959.67	2,934.11	10.82	116.39	54.77	2,588.81	1,048.78	2,486.54	2,362.08	124.45	19.980	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 208 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,100.00	3,029.46	3,055.02	3,029.46	11.40	120.20	55.32	2,588.81	1,048.78	2,468.71	2,339.92	128.79	19.168		
3,200.00	3,124.81	3,150.37	3,124.81	11.98	124.01	55.88	2,588.81	1,048.78	2,451.12	2,317.98	133.14	18.410		
3,300.00	3,220.15	3,245.71	3,220.15	12.56	127.83	56.45	2,588.81	1,048.78	2,433.79	2,296.28	137.50	17.700		
3,400.00	3,315.50	3,341.06	3,315.50	13.14	131.64	57.03	2,588.81	1,048.78	2,416.70	2,274.82	141.88	17.034		
3,500.00	3,410.85	3,436.41	3,410.85	13.73	135.46	57.61	2,588.81	1,048.78	2,399.87	2,253.61	146.25	16.409		
3,600.00	3,506.19	3,531.75	3,506.19	14.32	139.27	58.20	2,588.81	1,048.78	2,383.30	2,232.66	150.64	15.821		
3,700.00	3,601.54	3,627.10	3,601.54	14.91	143.08	58.80	2,588.81	1,048.78	2,367.00	2,211.96	155.04	15.267		
3,800.00	3,696.89	3,675.00	3,649.44	15.50	145.00	59.11	2,588.81	1,048.78	2,351.46	2,193.94	157.52	14.928		
3,900.00	3,792.24	3,675.00	3,649.44	16.09	145.00	59.11	2,588.81	1,048.78	2,339.59	2,181.54	158.05	14.803		
4,000.00	3,887.58	3,675.00	3,649.44	16.68	145.00	59.11	2,588.81	1,048.78	2,331.96	2,173.38	158.58	14.705		
4,100.00	3,982.93	3,675.00	3,649.44	17.27	145.00	59.11	2,588.81	1,048.78	2,328.60	2,169.49	159.11	14.635		
4,128.26	4,009.87	3,675.00	3,649.44	17.43	145.00	59.11	2,588.81	1,048.78	2,328.43	2,169.17	159.26	14.620 CC, ES		
4,200.00	4,078.28	3,675.00	3,649.44	17.86	145.00	59.11	2,588.81	1,048.78	2,329.54	2,169.89	159.65	14.592		
4,300.00	4,173.62	3,675.00	3,649.44	18.45	145.00	59.11	2,588.81	1,048.78	2,334.76	2,174.58	160.18	14.576 SF		
4,400.00	4,268.97	3,675.00	3,649.44	19.05	145.00	59.11	2,588.81	1,048.78	2,344.23	2,183.52	160.71	14.586		
4,500.00	4,364.32	3,675.00	3,649.44	19.64	145.00	59.11	2,588.81	1,048.78	2,357.92	2,196.67	161.25	14.623		
4,600.00	4,459.67	3,675.00	3,649.44	20.23	145.00	59.11	2,588.81	1,048.78	2,375.74	2,213.96	161.78	14.685		
4,700.00	4,555.01	3,675.00	3,649.44	20.83	145.00	59.11	2,588.81	1,048.78	2,397.60	2,235.28	162.32	14.771		
4,800.00	4,650.36	3,675.00	3,649.44	21.42	145.00	59.11	2,588.81	1,048.78	2,423.39	2,260.54	162.85	14.881		
4,900.00	4,745.71	3,675.00	3,649.44	22.02	145.00	59.11	2,588.81	1,048.78	2,452.99	2,289.61	163.39	15.013		
5,000.00	4,841.05	3,675.00	3,649.44	22.61	145.00	59.11	2,588.81	1,048.78	2,486.27	2,322.34	163.93	15.167		
5,100.00	4,936.40	3,675.00	3,649.44	23.21	145.00	59.11	2,588.81	1,048.78	2,523.07	2,358.61	164.46	15.341		
5,200.00	5,031.75	3,675.00	3,649.44	23.80	145.00	59.11	2,588.81	1,048.78	2,563.25	2,398.25	165.00	15.535		
5,300.00	5,127.09	3,675.00	3,649.44	24.40	145.00	59.11	2,588.81	1,048.78	2,606.64	2,441.11	165.54	15.747		
5,400.00	5,222.44	3,675.00	3,649.44	25.00	145.00	59.11	2,588.81	1,048.78	2,653.10	2,487.02	166.07	15.976		
5,500.00	5,317.79	3,675.00	3,649.44	25.59	145.00	59.11	2,588.81	1,048.78	2,702.46	2,535.85	166.61	16.220		
5,600.00	5,413.14	3,675.00	3,649.44	26.19	145.00	59.11	2,588.81	1,048.78	2,754.56	2,587.42	167.15	16.480		
5,700.00	5,508.48	3,675.00	3,649.44	26.78	145.00	59.12	2,588.81	1,048.78	2,809.27	2,641.57	167.69	16.752		
5,800.00	5,604.35	3,675.00	3,649.44	27.24	145.00	60.35	2,588.81	1,048.78	2,867.15	2,698.40	168.75	16.990		
5,900.00	5,701.15	3,675.00	3,649.44	27.65	145.00	61.72	2,588.81	1,048.78	2,928.66	2,758.95	169.71	17.257		
6,000.00	5,798.77	3,675.00	3,649.44	28.02	145.00	63.23	2,588.81	1,048.78	2,993.50	2,822.94	170.56	17.551		
6,100.00	5,897.08	3,675.00	3,649.44	28.35	145.00	64.89	2,588.81	1,048.78	3,061.39	2,890.07	171.32	17.869		
6,200.00	5,995.98	3,675.00	3,649.44	28.63	145.00	66.71	2,588.81	1,048.78	3,132.05	2,960.07	171.98	18.212		
6,300.00	6,095.33	3,675.00	3,649.44	28.87	145.00	68.70	2,588.81	1,048.78	3,205.20	3,032.65	172.54	18.576		
6,400.00	6,195.01	3,675.00	3,649.44	29.06	145.00	70.85	2,588.81	1,048.78	3,280.60	3,107.58	173.02	18.961		
6,500.00	6,294.91	3,675.00	3,649.44	29.20	145.00	73.18	2,588.81	1,048.78	3,358.00	3,184.59	173.42	19.364		
6,600.00	6,394.89	3,675.00	3,649.44	29.30	145.00	-36.90	2,588.81	1,048.78	3,436.98	3,263.22	173.76	19.780		
6,700.00	6,494.28	3,675.00	3,649.44	29.34	145.00	-31.76	2,588.81	1,048.78	3,512.13	3,339.81	172.32	20.381		
6,800.00	6,591.26	3,675.00	3,649.44	29.31	145.00	-28.03	2,588.81	1,048.78	3,580.42	3,412.66	167.77	21.341		
6,900.00	6,683.95	3,675.00	3,649.44	29.23	145.00	-25.29	2,588.81	1,048.78	3,640.94	3,480.80	160.14	22.735		
7,000.00	6,770.55	3,675.00	3,649.44	29.09	145.00	-23.29	2,588.81	1,048.78	3,692.92	3,543.23	149.69	24.671		
7,100.00	6,849.36	3,675.00	3,649.44	28.92	145.00	-21.83	2,588.81	1,048.78	3,735.72	3,598.93	136.79	27.311		
7,200.00	6,918.86	3,675.00	3,649.44	28.73	145.00	-20.81	2,588.81	1,048.78	3,768.82	3,646.85	121.98	30.898		
7,300.00	6,977.70	3,675.00	3,649.44	28.54	145.00	-20.15	2,588.81	1,048.78	3,791.86	3,685.84	106.03	35.763		
7,400.00	7,027.98	3,675.00	3,649.44	28.35	145.00	-19.97	2,588.81	1,048.78	3,808.01	3,708.41	99.60	38.233		
7,500.00	7,070.01	3,675.00	3,649.44	28.19	145.00	-19.69	2,588.81	1,048.78	3,818.07	3,733.96	84.11	45.393		
7,600.00	7,099.01	3,675.00	3,649.44	28.06	145.00	-19.70	2,588.81	1,048.78	3,817.63	3,746.27	71.36	53.499		
7,700.00	7,114.42	3,675.00	3,649.44	27.97	145.00	-20.00	2,588.81	1,048.78	3,806.69	3,742.27	64.42	59.089		
7,800.00	7,117.13	3,675.00	3,649.44	28.00	145.00	-20.32	2,588.81	1,048.78	3,786.45	3,721.87	64.58	58.636		
7,900.00	7,117.44	3,675.00	3,649.44	28.26	145.00	-20.32	2,588.81	1,048.78	3,766.53	3,701.15	65.38	57.613		
8,000.00	7,117.75	3,675.00	3,649.44	28.94	145.00	-20.32	2,588.81	1,048.78	3,749.17	3,682.96	66.22	56.621		
8,100.00	7,118.06	3,675.00	3,649.44	30.16	145.00	-20.32	2,588.81	1,048.78	3,734.41	3,667.33	67.09	55.665		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 208 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,200.00	7,118.37	3,675.00	3,649.44	31.76	145.00	-20.32	2,588.81	1,048.78	3,722.28	3,654.30	67.99	54.750		
8,300.00	7,118.68	3,675.00	3,649.44	33.58	145.00	-20.32	2,588.81	1,048.78	3,712.81	3,643.90	68.91	53.879		
8,400.00	7,118.99	3,675.00	3,649.44	35.53	145.00	-20.32	2,588.81	1,048.78	3,706.00	3,636.15	69.85	53.054		
8,500.00	7,119.30	3,675.00	3,649.44	37.56	145.00	-20.32	2,588.81	1,048.78	3,701.89	3,631.08	70.82	52.275		
8,600.00	7,119.61	3,675.00	3,649.44	39.66	145.00	-20.32	2,588.81	1,048.78	3,700.48	3,628.69	71.79	51.544		
8,602.28	7,119.62	3,675.00	3,649.44	39.70	145.00	-20.32	2,588.81	1,048.78	3,700.48	3,628.66	71.82	51.528		
8,700.00	7,119.92	3,675.00	3,649.44	41.80	145.00	-20.32	2,588.81	1,048.78	3,701.77	3,628.99	72.78	50.861		
8,800.00	7,120.23	3,675.00	3,649.44	43.99	145.00	-20.32	2,588.81	1,048.78	3,705.76	3,631.97	73.78	50.224		
8,900.00	7,120.54	3,675.00	3,649.44	46.22	145.00	-20.32	2,588.81	1,048.78	3,712.44	3,637.64	74.80	49.634		
9,000.00	7,120.85	3,675.00	3,649.44	48.47	145.00	-20.32	2,588.81	1,048.78	3,721.79	3,645.97	75.82	49.089		
9,100.00	7,121.16	3,675.00	3,649.44	50.75	145.00	-20.32	2,588.81	1,048.78	3,733.80	3,656.95	76.85	48.588		
9,200.00	7,121.47	3,675.00	3,649.44	53.05	145.00	-20.32	2,588.81	1,048.78	3,748.44	3,670.56	77.88	48.130		
9,300.00	7,121.78	3,675.00	3,649.44	55.37	145.00	-20.32	2,588.81	1,048.78	3,765.68	3,686.76	78.92	47.713		
9,400.00	7,122.09	3,675.00	3,649.44	57.71	145.00	-20.32	2,588.81	1,048.78	3,785.49	3,705.51	79.97	47.335		
9,500.00	7,122.40	3,675.00	3,649.44	60.06	145.00	-20.32	2,588.81	1,048.78	3,807.81	3,726.79	81.02	46.996		
9,600.00	7,122.71	3,675.00	3,649.44	62.43	145.00	-20.32	2,588.81	1,048.78	3,832.62	3,750.54	82.08	46.692		
9,700.00	7,123.02	3,675.00	3,649.44	64.80	145.00	-20.32	2,588.81	1,048.78	3,859.86	3,776.72	83.14	46.424		
9,800.00	7,123.33	3,675.00	3,649.44	67.19	145.00	-20.32	2,588.81	1,048.78	3,889.48	3,805.27	84.21	46.189		
9,900.00	7,123.65	3,675.00	3,649.44	69.59	145.00	-20.32	2,588.81	1,048.78	3,921.43	3,836.15	85.28	45.984		
10,000.00	7,123.96	3,675.00	3,649.44	71.99	145.00	-20.32	2,588.81	1,048.78	3,955.65	3,869.30	86.35	45.810		
10,100.00	7,124.27	3,675.00	3,649.44	74.40	145.00	-20.32	2,588.81	1,048.78	3,992.08	3,904.66	87.42	45.664		
10,200.00	7,124.58	3,675.00	3,649.44	76.82	145.00	-20.32	2,588.81	1,048.78	4,030.66	3,942.16	88.50	45.544		
10,300.00	7,124.89	3,675.00	3,649.44	79.25	145.00	-20.32	2,588.81	1,048.78	4,071.34	3,981.76	89.58	45.449		
10,400.00	7,125.20	3,675.00	3,649.44	81.68	145.00	-20.32	2,588.81	1,048.78	4,114.04	4,023.38	90.66	45.378		
10,500.00	7,125.51	3,675.00	3,649.44	84.12	145.00	-20.32	2,588.81	1,048.78	4,158.71	4,066.97	91.74	45.329		
10,600.00	7,125.82	3,675.00	3,649.44	86.56	145.00	-20.32	2,588.81	1,048.78	4,205.28	4,112.46	92.83	45.301		
10,700.00	7,126.13	3,675.00	3,649.44	89.01	145.00	-20.32	2,588.81	1,048.78	4,253.70	4,159.78	93.92	45.292		
10,800.00	7,126.44	3,675.00	3,649.44	91.46	145.00	-20.32	2,588.81	1,048.78	4,303.89	4,208.89	95.01	45.302		
10,900.00	7,126.75	3,675.00	3,649.44	93.91	145.00	-20.32	2,588.81	1,048.78	4,355.81	4,259.71	96.10	45.328		
11,000.00	7,127.06	3,675.00	3,649.44	96.37	145.00	-20.32	2,588.81	1,048.78	4,409.38	4,312.19	97.19	45.370		
11,100.00	7,127.37	3,675.00	3,649.44	98.83	145.00	-20.32	2,588.81	1,048.78	4,464.54	4,366.26	98.28	45.427		
11,200.00	7,127.68	3,675.00	3,649.44	101.30	145.00	-20.32	2,588.81	1,048.78	4,521.25	4,421.87	99.37	45.498		
11,300.00	7,127.99	3,675.00	3,649.44	103.77	145.00	-20.32	2,588.81	1,048.78	4,579.43	4,478.97	100.47	45.581		
11,400.00	7,128.30	3,675.00	3,649.44	106.24	145.00	-20.32	2,588.81	1,048.78	4,639.05	4,537.48	101.56	45.676		
11,500.00	7,128.61	3,675.00	3,649.44	108.71	145.00	-20.32	2,588.81	1,048.78	4,700.03	4,597.37	102.66	45.782		
11,600.00	7,128.92	3,675.00	3,649.44	111.19	145.00	-20.32	2,588.81	1,048.78	4,762.34	4,658.58	103.76	45.898		
11,700.00	7,129.23	3,675.00	3,649.44	113.66	145.00	-20.32	2,588.81	1,048.78	4,825.91	4,721.05	104.86	46.023		
11,800.00	7,129.54	3,675.00	3,649.44	116.14	145.00	-20.32	2,588.81	1,048.78	4,890.70	4,784.74	105.96	46.157		
11,900.00	7,129.85	3,675.00	3,649.44	118.62	145.00	-20.32	2,588.81	1,048.78	4,956.66	4,849.80	107.06	46.299		
12,000.00	7,130.16	3,675.00	3,649.44	121.11	145.00	-20.32	2,588.81	1,048.78	5,023.75	4,915.59	108.16	46.448		
12,100.00	7,130.47	3,675.00	3,649.44	123.59	145.00	-20.32	2,588.81	1,048.78	5,091.91	4,982.65	109.26	46.603		
12,200.00	7,130.78	3,675.00	3,649.44	126.08	145.00	-20.32	2,588.81	1,048.78	5,161.12	5,050.75	110.36	46.765		
12,300.00	7,131.09	3,675.00	3,649.44	128.57	145.00	-20.32	2,588.81	1,048.78	5,231.31	5,119.85	111.47	46.932		
12,400.00	7,131.40	3,675.00	3,649.44	131.06	145.00	-20.32	2,588.81	1,048.78	5,302.47	5,189.90	112.57	47.104		
12,500.00	7,131.71	3,675.00	3,649.44	133.55	145.00	-20.32	2,588.81	1,048.78	5,374.55	5,260.87	113.67	47.280		
12,600.00	7,132.02	3,675.00	3,649.44	136.04	145.00	-20.32	2,588.81	1,048.78	5,447.50	5,332.72	114.78	47.461		
12,700.00	7,132.33	3,675.00	3,649.44	138.54	145.00	-20.32	2,588.81	1,048.78	5,521.31	5,405.42	115.88	47.645		
12,800.00	7,132.64	3,675.00	3,649.44	141.03	145.00	-20.32	2,588.81	1,048.78	5,595.92	5,478.94	116.99	47.833		
12,900.00	7,132.95	3,675.00	3,649.44	143.53	145.00	-20.32	2,588.81	1,048.78	5,671.32	5,553.23	118.09	48.023		
13,000.00	7,133.26	3,675.00	3,649.44	146.02	145.00	-20.32	2,588.81	1,048.78	5,747.47	5,628.27	119.20	48.217		
13,100.00	7,133.57	3,675.00	3,649.44	148.52	145.00	-20.32	2,588.81	1,048.78	5,824.35	5,704.04	120.31	48.412		
13,200.00	7,133.88	3,675.00	3,649.44	151.02	145.00	-20.32	2,588.81	1,048.78	5,901.91	5,780.49	121.42	48.609		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 208 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference	Offset		Semi Major Axis		Distance		Between		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
13,300.00	7,134.19	3,675.00	3,649.44	153.52	145.00	-20.32	2,588.81	1,048.78	5,980.14	5,857.62	122.52	48.808		
13,400.00	7,134.50	3,675.00	3,649.44	156.02	145.00	-20.32	2,588.81	1,048.78	6,059.01	5,935.38	123.63	49.009		
13,500.00	7,134.81	3,675.00	3,649.44	158.52	145.00	-20.32	2,588.81	1,048.78	6,138.50	6,013.76	124.74	49.211		
13,600.00	7,135.12	3,675.00	3,649.44	161.03	145.00	-20.32	2,588.81	1,048.78	6,218.58	6,092.73	125.85	49.414		
13,700.00	7,135.43	3,675.00	3,649.44	163.53	145.00	-20.32	2,588.81	1,048.78	6,299.23	6,172.27	126.96	49.617		
13,800.00	7,135.74	3,675.00	3,649.44	166.03	145.00	-20.32	2,588.81	1,048.78	6,380.42	6,252.36	128.07	49.822		
13,900.00	7,136.05	3,675.00	3,649.44	168.54	145.00	-20.32	2,588.81	1,048.78	6,462.15	6,332.97	129.18	50.026		
14,000.00	7,136.36	3,675.00	3,649.44	171.04	145.00	-20.32	2,588.81	1,048.78	6,544.38	6,414.09	130.28	50.231		
14,100.00	7,136.67	3,675.00	3,649.44	173.55	145.00	-20.32	2,588.81	1,048.78	6,627.10	6,495.70	131.39	50.437		
14,200.00	7,136.98	3,675.00	3,649.44	176.05	145.00	-20.32	2,588.81	1,048.78	6,710.29	6,577.78	132.50	50.642		
14,300.00	7,137.29	3,675.00	3,649.44	178.56	145.00	-20.32	2,588.81	1,048.78	6,793.93	6,660.32	133.62	50.847		
14,400.00	7,137.60	3,675.00	3,649.44	181.07	145.00	-20.32	2,588.81	1,048.78	6,878.01	6,743.29	134.73	51.052		
14,500.00	7,137.91	3,675.00	3,649.44	183.58	145.00	-20.32	2,588.81	1,048.78	6,962.51	6,826.68	135.84	51.256		
14,600.00	7,138.22	3,675.00	3,649.44	186.09	145.00	-20.32	2,588.81	1,048.78	7,047.42	6,910.47	136.95	51.461		
14,700.00	7,138.53	3,675.00	3,649.44	188.59	145.00	-20.32	2,588.81	1,048.78	7,132.72	6,994.66	138.06	51.664		
14,800.00	7,138.84	3,675.00	3,649.44	191.10	145.00	-20.32	2,588.81	1,048.78	7,218.40	7,079.22	139.17	51.867		
14,900.00	7,139.15	3,675.00	3,649.44	193.61	145.00	-20.32	2,588.81	1,048.78	7,304.44	7,164.15	140.28	52.070		
15,000.00	7,139.46	3,675.00	3,649.44	196.13	145.00	-20.32	2,588.81	1,048.78	7,390.83	7,249.43	141.39	52.271		
15,100.00	7,139.77	3,675.00	3,649.44	198.64	145.00	-20.32	2,588.81	1,048.78	7,477.56	7,335.05	142.51	52.472		
15,200.00	7,140.08	3,675.00	3,649.44	201.15	145.00	-20.32	2,588.81	1,048.78	7,564.62	7,421.00	143.62	52.672		
15,300.00	7,140.39	3,675.00	3,649.44	203.66	145.00	-20.32	2,588.81	1,048.78	7,651.99	7,507.26	144.73	52.870		
15,400.00	7,140.70	3,675.00	3,649.44	206.17	145.00	-20.32	2,588.81	1,048.78	7,739.67	7,593.83	145.84	53.068		
15,500.00	7,141.01	3,675.00	3,649.44	208.68	145.00	-20.32	2,588.81	1,048.78	7,827.65	7,680.69	146.96	53.265		
15,600.00	7,141.32	3,675.00	3,649.44	211.20	145.00	-20.32	2,588.81	1,048.78	7,915.91	7,767.84	148.07	53.461		
15,700.00	7,141.63	3,675.00	3,649.44	213.71	145.00	-20.32	2,588.81	1,048.78	8,004.44	7,855.26	149.18	53.656		
15,800.00	7,141.94	3,675.00	3,649.44	216.22	145.00	-20.32	2,588.81	1,048.78	8,093.25	7,942.95	150.29	53.849		
15,900.00	7,142.25	3,675.00	3,649.44	218.74	145.00	-20.32	2,588.81	1,048.78	8,182.31	8,030.90	151.41	54.041		
16,000.00	7,142.56	3,675.00	3,649.44	221.25	145.00	-20.32	2,588.81	1,048.78	8,271.62	8,119.10	152.52	54.233		
16,100.00	7,142.87	3,675.00	3,649.44	223.77	145.00	-20.32	2,588.81	1,048.78	8,361.18	8,207.54	153.63	54.422		
16,200.00	7,143.18	3,675.00	3,649.44	226.28	145.00	-20.32	2,588.81	1,048.78	8,450.97	8,296.22	154.75	54.611		
16,300.00	7,143.49	3,675.00	3,649.44	228.80	145.00	-20.32	2,588.81	1,048.78	8,540.98	8,385.12	155.86	54.798		
16,400.00	7,143.80	3,675.00	3,649.44	231.31	145.00	-20.32	2,588.81	1,048.78	8,631.22	8,474.24	156.98	54.984		
16,500.00	7,144.11	3,675.00	3,649.44	233.83	145.00	-20.32	2,588.81	1,048.78	8,721.67	8,563.58	158.09	55.169		
16,600.00	7,144.42	3,675.00	3,649.44	236.34	145.00	-20.32	2,588.81	1,048.78	8,812.32	8,653.12	159.20	55.352		
16,700.00	7,144.73	3,675.00	3,649.44	238.86	145.00	-20.32	2,588.81	1,048.78	8,903.18	8,742.86	160.32	55.535		
16,800.00	7,145.05	3,675.00	3,649.44	241.37	145.00	-20.32	2,588.81	1,048.78	8,994.23	8,832.79	161.43	55.715		
16,900.00	7,145.36	3,675.00	3,649.44	243.89	145.00	-20.32	2,588.81	1,048.78	9,085.46	8,922.92	162.55	55.895		
17,000.00	7,145.67	3,675.00	3,649.44	246.41	145.00	-20.32	2,588.81	1,048.78	9,176.88	9,013.22	163.66	56.073		
17,100.00	7,145.98	3,675.00	3,649.44	248.93	145.00	-20.32	2,588.81	1,048.78	9,268.48	9,103.71	164.78	56.249		
17,200.00	7,146.29	3,675.00	3,649.44	251.44	145.00	-20.32	2,588.81	1,048.78	9,360.25	9,194.36	165.89	56.424		
17,300.00	7,146.60	3,675.00	3,649.44	253.96	145.00	-20.32	2,588.81	1,048.78	9,452.19	9,285.18	167.00	56.598		
17,400.00	7,146.91	3,675.00	3,649.44	256.48	145.00	-20.32	2,588.81	1,048.78	9,544.28	9,376.16	168.12	56.771		
17,430.36	7,147.00	3,675.00	3,649.44	257.24	145.00	-20.32	2,588.81	1,048.78	9,572.28	9,403.82	168.46	56.823		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	15.83	0.00	0.00	16.70	391.79	117.52	409.34				
100.00	100.00	84.17	100.00	0.08	1.68	16.70	391.79	117.52	409.04	407.27	1.77	231.392 CC, ES	
200.00	200.00	100.00	115.83	0.31	2.00	16.70	391.79	117.52	417.61	415.30	2.31	180.856	
300.00	300.00	100.00	115.83	0.53	2.00	16.70	391.79	117.52	448.59	446.05	2.53	177.039	
400.00	400.00	100.00	115.83	0.76	2.00	16.70	391.79	117.52	498.06	495.30	2.76	180.549	
500.00	500.00	100.00	115.83	0.98	2.00	16.70	391.79	117.52	561.16	558.17	2.98	188.096	
600.00	600.00	100.00	115.83	1.21	2.00	16.70	391.79	117.52	633.82	630.61	3.21	197.568	
700.00	700.00	100.00	115.83	1.43	2.00	16.70	391.79	117.52	713.14	709.70	3.43	207.737	
800.00	800.00	100.00	115.83	1.66	2.00	16.70	391.79	117.52	797.12	793.46	3.66	217.932	
900.00	900.00	100.00	115.83	1.88	2.00	16.70	391.79	117.52	884.44	880.56	3.88	227.806	
1,000.00	1,000.00	100.00	115.83	2.11	2.00	16.70	391.79	117.52	974.20	970.09	4.11	237.194	
1,100.00	1,099.98	100.00	115.83	2.33	2.00	37.55	391.79	117.52	1,065.26	1,060.93	4.33	245.979	
1,200.00	1,199.84	100.00	115.83	2.56	2.00	34.87	391.79	117.52	1,156.75	1,152.20	4.55	254.051	
1,300.00	1,299.45	100.00	115.83	2.79	2.00	32.32	391.79	117.52	1,248.49	1,243.71	4.78	261.369	
1,400.00	1,398.70	100.00	115.83	3.03	2.00	29.92	391.79	117.52	1,340.32	1,335.32	5.00	267.950	
1,500.00	1,497.47	100.00	115.83	3.30	2.00	27.69	391.79	117.52	1,432.12	1,426.89	5.23	273.814	
1,600.00	1,595.62	100.00	115.83	3.61	2.00	25.63	391.79	117.52	1,523.80	1,518.34	5.46	278.995	
1,700.00	1,693.06	100.00	115.83	3.95	2.00	23.74	391.79	117.52	1,615.27	1,609.58	5.70	283.530	
1,800.00	1,789.64	100.00	115.83	4.35	2.00	22.02	391.79	117.52	1,706.47	1,700.54	5.94	287.459	
1,900.00	1,885.30	100.00	115.83	4.80	2.00	20.78	391.79	117.52	1,797.37	1,791.18	6.19	290.332	
2,000.00	1,980.64	100.00	115.83	5.29	2.00	20.78	391.79	117.52	1,888.81	1,882.32	6.49	291.086	
2,100.00	2,075.99	100.00	115.83	5.80	2.00	20.78	391.79	117.52	1,981.08	1,974.29	6.80	291.520	
2,200.00	2,171.34	100.00	115.83	6.33	2.00	20.78	391.79	117.52	2,074.07	2,066.96	7.11	291.722	
2,300.00	2,266.68	100.00	115.83	6.87	2.00	20.78	391.79	117.52	2,167.68	2,160.25	7.43	291.756	
2,400.00	2,362.03	100.00	115.83	7.41	2.00	20.78	391.79	117.52	2,261.83	2,254.08	7.75	291.670	
2,500.00	2,457.38	100.00	115.83	7.97	2.00	20.78	391.79	117.52	2,356.47	2,348.39	8.08	291.499	
2,600.00	2,552.72	100.00	115.83	8.53	2.00	20.78	391.79	117.52	2,451.54	2,443.12	8.42	291.269	
2,700.00	2,648.07	100.00	115.83	9.10	2.00	20.78	391.79	117.52	2,546.98	2,538.23	8.75	290.998	
2,800.00	2,743.42	100.00	115.83	9.67	2.00	20.78	391.79	117.52	2,642.76	2,633.67	9.09	290.701	
2,900.00	2,838.77	100.00	115.83	10.24	2.00	20.78	391.79	117.52	2,738.84	2,729.41	9.43	290.387	
3,000.00	2,934.11	100.00	115.83	10.82	2.00	20.78	391.79	117.52	2,835.19	2,825.42	9.77	290.065	
3,100.00	3,029.46	100.00	115.83	11.40	2.00	20.78	391.79	117.52	2,931.79	2,921.67	10.12	289.739	
3,200.00	3,124.81	100.00	115.83	11.98	2.00	20.78	391.79	117.52	3,028.61	3,018.14	10.46	289.415	
3,300.00	3,220.15	100.00	115.83	12.56	2.00	20.78	391.79	117.52	3,125.62	3,114.81	10.81	289.093	
3,400.00	3,315.50	100.00	115.83	13.14	2.00	20.78	391.79	117.52	3,222.82	3,211.66	11.16	288.778	
3,500.00	3,410.85	100.00	115.83	13.73	2.00	20.78	391.79	117.52	3,320.19	3,308.68	11.51	288.469	
3,600.00	3,506.19	100.00	115.83	14.32	2.00	20.78	391.79	117.52	3,417.71	3,405.85	11.86	288.169	
3,700.00	3,601.54	100.00	115.83	14.91	2.00	20.78	391.79	117.52	3,515.37	3,503.15	12.21	287.877	
3,800.00	3,696.89	100.00	115.83	15.50	2.00	20.78	391.79	117.52	3,613.15	3,600.59	12.56	287.594	
3,900.00	3,792.24	100.00	115.83	16.09	2.00	20.78	391.79	117.52	3,711.06	3,698.14	12.92	287.321	
4,000.00	3,887.58	100.00	115.83	16.68	2.00	20.78	391.79	117.52	3,809.07	3,795.80	13.27	287.056	
4,100.00	3,982.93	100.00	115.83	17.27	2.00	20.78	391.79	117.52	3,907.18	3,893.56	13.62	286.801	
4,200.00	4,078.28	100.00	115.83	17.86	2.00	20.78	391.79	117.52	4,005.39	3,991.41	13.98	286.555	
4,300.00	4,173.62	100.00	115.83	18.45	2.00	20.78	391.79	117.52	4,103.68	4,089.35	14.33	286.317	
4,400.00	4,268.97	100.00	115.83	19.05	2.00	20.78	391.79	117.52	4,202.06	4,187.37	14.69	286.088	
4,500.00	4,364.32	100.00	115.83	19.64	2.00	20.78	391.79	117.52	4,300.51	4,285.46	15.04	285.867	
4,600.00	4,459.67	100.00	115.83	20.23	2.00	20.78	391.79	117.52	4,399.03	4,383.63	15.40	285.654	
4,700.00	4,555.01	100.00	115.83	20.83	2.00	20.78	391.79	117.52	4,497.61	4,481.85	15.76	285.449	
4,800.00	4,650.36	100.00	115.83	21.42	2.00	20.78	391.79	117.52	4,596.26	4,580.14	16.11	285.251	
4,900.00	4,745.71	100.00	115.83	22.02	2.00	20.78	391.79	117.52	4,694.96	4,678.49	16.47	285.060	
5,000.00	4,841.05	100.00	115.83	22.61	2.00	20.78	391.79	117.52	4,793.71	4,776.89	16.83	284.876	
5,100.00	4,936.40	100.00	115.83	23.21	2.00	20.78	391.79	117.52	4,892.52	4,875.34	17.18	284.698	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,031.75	100.00	115.83	23.80	2.00	20.78	391.79	117.52	4,991.38	4,973.83	17.54	284.526	
5,300.00	5,127.09	100.00	115.83	24.40	2.00	20.78	391.79	117.52	5,090.28	5,072.38	17.90	284.360	
5,400.00	5,222.44	100.00	115.83	25.00	2.00	20.78	391.79	117.52	5,189.22	5,170.96	18.26	284.200	
5,500.00	5,317.79	100.00	115.83	25.59	2.00	20.78	391.79	117.52	5,288.20	5,269.58	18.62	284.045	
5,600.00	5,413.14	100.00	115.83	26.19	2.00	20.78	391.79	117.52	5,387.22	5,368.24	18.98	283.896	
5,700.00	5,508.48	100.00	115.83	26.78	2.00	20.86	391.79	117.52	5,486.27	5,466.93	19.35	283.569	
5,800.00	5,604.35	100.00	115.83	27.24	2.00	27.77	391.79	117.52	5,585.56	5,564.65	20.91	267.074	
5,900.00	5,701.15	100.00	115.83	27.65	2.00	40.79	391.79	117.52	5,685.19	5,661.34	23.85	238.399	
6,000.00	5,798.77	100.00	115.83	28.02	2.00	68.02	391.79	117.52	5,785.01	5,756.26	28.76	201.181	
6,100.00	5,897.08	100.00	115.83	28.35	2.00	110.06	391.79	117.52	5,884.90	5,855.77	29.14	201.965	
6,200.00	5,995.98	100.00	115.83	28.63	2.00	138.91	391.79	117.52	5,984.74	5,960.33	24.41	245.150	
6,300.00	6,095.33	100.00	115.83	28.87	2.00	152.73	391.79	117.52	6,084.41	6,062.72	21.69	280.518	
6,400.00	6,195.01	100.00	115.83	29.06	2.00	159.98	391.79	117.52	6,183.80	6,163.35	20.46	302.262	
6,500.00	6,294.91	100.00	115.83	29.20	2.00	164.30	391.79	117.52	6,282.81	6,262.96	19.85	316.569	
6,600.00	6,394.89	100.00	115.83	29.30	2.00	45.50	391.79	117.52	6,381.30	6,360.64	20.66	308.815	
6,700.00	6,494.28	100.00	115.83	29.34	2.00	27.30	391.79	117.52	6,478.04	6,454.11	23.93	270.665	
6,800.00	6,591.26	100.00	115.83	29.31	2.00	19.21	391.79	117.52	6,571.13	6,546.45	24.68	266.251	
6,900.00	6,683.95	100.00	115.83	29.23	2.00	14.89	391.79	117.52	6,658.96	6,634.92	24.04	276.982	
7,000.00	6,770.55	100.00	115.83	29.09	2.00	12.28	391.79	117.52	6,740.05	6,717.52	22.53	299.126	
7,100.00	6,849.36	100.00	115.83	28.92	2.00	10.58	391.79	117.52	6,813.10	6,792.71	20.39	334.096	
7,200.00	6,918.86	100.00	115.83	28.73	2.00	9.42	391.79	117.52	6,876.95	6,859.17	17.78	386.857	
7,300.00	6,977.70	100.00	115.83	28.54	2.00	8.62	391.79	117.52	6,930.64	6,915.81	14.83	467.445	
7,400.00	7,027.98	100.00	115.83	28.35	2.00	8.38	391.79	117.52	6,976.65	6,962.87	13.78	506.345	
7,500.00	7,070.01	100.00	115.83	28.19	2.00	7.90	391.79	117.52	7,015.50	7,004.76	10.74	652.979	
7,600.00	7,099.01	100.00	115.83	28.06	2.00	7.59	391.79	117.52	7,042.58	7,034.34	8.24	854.882	
7,700.00	7,114.42	100.00	115.83	27.97	2.00	7.43	391.79	117.52	7,057.50	7,050.48	7.03	1,004.227	
7,800.00	7,117.13	100.00	115.83	28.00	2.00	7.40	391.79	117.52	7,061.24	7,053.58	7.66	922.259	
7,900.00	7,117.44	100.00	115.83	28.26	2.00	7.40	391.79	117.52	7,064.00	7,055.51	8.49	831.892	
8,000.00	7,117.75	100.00	115.83	28.94	2.00	7.40	391.79	117.52	7,068.18	7,058.85	9.33	757.360	
8,100.00	7,118.06	100.00	115.83	30.16	2.00	7.40	391.79	117.52	7,073.77	7,063.59	10.18	694.979	
8,200.00	7,118.37	100.00	115.83	31.76	2.00	7.40	391.79	117.52	7,080.77	7,069.74	11.03	642.091	
8,300.00	7,118.68	100.00	115.83	33.58	2.00	7.40	391.79	117.52	7,089.17	7,077.29	11.88	596.747	
8,400.00	7,118.99	100.00	115.83	35.53	2.00	7.40	391.79	117.52	7,098.98	7,086.24	12.73	557.486	
8,500.00	7,119.30	100.00	115.83	37.56	2.00	7.40	391.79	117.52	7,110.17	7,096.58	13.59	523.195	
8,600.00	7,119.61	100.00	115.83	39.66	2.00	7.40	391.79	117.52	7,122.75	7,108.30	14.45	493.014	
8,700.00	7,119.92	100.00	115.83	41.80	2.00	7.40	391.79	117.52	7,136.71	7,121.41	15.31	466.268	
8,800.00	7,120.23	100.00	115.83	43.99	2.00	7.40	391.79	117.52	7,152.04	7,135.88	16.17	442.421	
8,900.00	7,120.54	100.00	115.83	46.22	2.00	7.40	391.79	117.52	7,168.74	7,151.71	17.03	421.040	
9,000.00	7,120.85	100.00	115.83	48.47	2.00	7.40	391.79	117.52	7,186.78	7,168.90	17.89	401.776	
9,100.00	7,121.16	100.00	115.83	50.75	2.00	7.40	391.79	117.52	7,206.17	7,187.42	18.75	384.341	
9,200.00	7,121.47	100.00	115.83	53.05	2.00	7.40	391.79	117.52	7,226.89	7,207.28	19.61	368.496	
9,300.00	7,121.78	100.00	115.83	55.37	2.00	7.40	391.79	117.52	7,248.93	7,228.46	20.47	354.041	
9,400.00	7,122.09	100.00	115.83	57.71	2.00	7.40	391.79	117.52	7,272.28	7,250.95	21.34	340.811	
9,500.00	7,122.40	100.00	115.83	60.06	2.00	7.40	391.79	117.52	7,296.93	7,274.73	22.20	328.662	
9,600.00	7,122.71	100.00	115.83	62.43	2.00	7.40	391.79	117.52	7,322.86	7,299.79	23.07	317.475	
9,700.00	7,123.02	100.00	115.83	64.80	2.00	7.40	391.79	117.52	7,350.05	7,326.12	23.93	307.144	
9,800.00	7,123.33	100.00	115.83	67.19	2.00	7.40	391.79	117.52	7,378.51	7,353.71	24.79	297.582	
9,900.00	7,123.65	100.00	115.83	69.59	2.00	7.40	391.79	117.52	7,408.20	7,382.54	25.66	288.709	
10,000.00	7,123.96	100.00	115.83	71.99	2.00	7.40	391.79	117.52	7,439.12	7,412.59	26.52	280.459	
10,100.00	7,124.27	100.00	115.83	74.40	2.00	7.40	391.79	117.52	7,471.25	7,443.86	27.39	272.772	
10,200.00	7,124.58	100.00	115.83	76.82	2.00	7.40	391.79	117.52	7,504.57	7,476.32	28.26	265.597	
10,300.00	7,124.89	100.00	115.83	79.25	2.00	7.40	391.79	117.52	7,539.08	7,509.96	29.12	258.887	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	100.00	115.83	81.68	2.00	7.40	391.79	117.52	7,574.74	7,544.76	29.99	252.603		
10,500.00	7,125.51	100.00	115.83	84.12	2.00	7.40	391.79	117.52	7,611.56	7,580.71	30.85	246.707		
10,600.00	7,125.82	100.00	115.83	86.56	2.00	7.40	391.79	117.52	7,649.50	7,617.78	31.72	241.167		
10,700.00	7,126.13	100.00	115.83	89.01	2.00	7.40	391.79	117.52	7,688.56	7,655.97	32.58	235.956		
10,800.00	7,126.44	100.00	115.83	91.46	2.00	7.40	391.79	117.52	7,728.71	7,695.26	33.45	231.046		
10,900.00	7,126.75	100.00	115.83	93.91	2.00	7.40	391.79	117.52	7,769.95	7,735.63	34.32	226.415		
11,000.00	7,127.06	100.00	115.83	96.37	2.00	7.40	391.79	117.52	7,812.24	7,777.06	35.18	222.042		
11,100.00	7,127.37	100.00	115.83	98.83	2.00	7.40	391.79	117.52	7,855.58	7,819.53	36.05	217.908		
11,200.00	7,127.68	100.00	115.83	101.30	2.00	7.40	391.79	117.52	7,899.95	7,863.04	36.92	213.995		
11,300.00	7,127.99	100.00	115.83	103.77	2.00	7.40	391.79	117.52	7,945.33	7,907.55	37.78	210.288		
11,400.00	7,128.30	100.00	115.83	106.24	2.00	7.40	391.79	117.52	7,991.71	7,953.06	38.65	206.772		
11,500.00	7,128.61	100.00	115.83	108.71	2.00	7.40	391.79	117.52	8,039.06	7,999.54	39.52	203.435		
11,600.00	7,128.92	100.00	115.83	111.19	2.00	7.40	391.79	117.52	8,087.37	8,046.98	40.38	200.265		
11,700.00	7,129.23	100.00	115.83	113.66	2.00	7.40	391.79	117.52	8,136.62	8,095.37	41.25	197.250		
11,800.00	7,129.54	100.00	115.83	116.14	2.00	7.40	391.79	117.52	8,186.80	8,144.68	42.12	194.382		
11,900.00	7,129.85	100.00	115.83	118.62	2.00	7.40	391.79	117.52	8,237.88	8,194.90	42.98	191.650		
12,000.00	7,130.16	100.00	115.83	121.11	2.00	7.40	391.79	117.52	8,289.86	8,246.01	43.85	189.046		
12,100.00	7,130.47	100.00	115.83	123.59	2.00	7.40	391.79	117.52	8,342.71	8,297.99	44.72	186.562		
12,200.00	7,130.78	100.00	115.83	126.08	2.00	7.40	391.79	117.52	8,396.42	8,350.84	45.59	184.192		
12,300.00	7,131.09	100.00	115.83	128.57	2.00	7.40	391.79	117.52	8,450.97	8,404.52	46.45	181.928		
12,400.00	7,131.40	100.00	115.83	131.06	2.00	7.40	391.79	117.52	8,506.35	8,459.03	47.32	179.764		
12,500.00	7,131.71	100.00	115.83	133.55	2.00	7.40	391.79	117.52	8,562.54	8,514.35	48.19	177.695		
12,600.00	7,132.02	100.00	115.83	136.04	2.00	7.40	391.79	117.52	8,619.52	8,570.47	49.05	175.716		
12,700.00	7,132.33	100.00	115.83	138.54	2.00	7.40	391.79	117.52	8,677.28	8,627.36	49.92	173.820		
12,800.00	7,132.64	100.00	115.83	141.03	2.00	7.40	391.79	117.52	8,735.81	8,685.02	50.79	172.004		
12,900.00	7,132.95	100.00	115.83	143.53	2.00	7.40	391.79	117.52	8,795.08	8,743.42	51.66	170.264		
13,000.00	7,133.26	100.00	115.83	146.02	2.00	7.40	391.79	117.52	8,855.08	8,802.56	52.52	168.595		
13,100.00	7,133.57	100.00	115.83	148.52	2.00	7.40	391.79	117.52	8,915.80	8,862.41	53.39	166.993		
13,200.00	7,133.88	100.00	115.83	151.02	2.00	7.40	391.79	117.52	8,977.22	8,922.97	54.26	165.455		
13,300.00	7,134.19	100.00	115.83	153.52	2.00	7.40	391.79	117.52	9,039.34	8,984.21	55.13	163.979		
13,400.00	7,134.50	100.00	115.83	156.02	2.00	7.40	391.79	117.52	9,102.13	9,046.13	55.99	162.560		
13,500.00	7,134.81	100.00	115.83	158.52	2.00	7.40	391.79	117.52	9,165.57	9,108.71	56.86	161.196		
13,600.00	7,135.12	100.00	115.83	161.03	2.00	7.40	391.79	117.52	9,229.67	9,171.94	57.73	159.884		
13,700.00	7,135.43	100.00	115.83	163.53	2.00	7.40	391.79	117.52	9,294.40	9,235.81	58.59	158.622		
13,800.00	7,135.74	100.00	115.83	166.03	2.00	7.40	391.79	117.52	9,359.75	9,300.29	59.46	157.406		
13,900.00	7,136.05	100.00	115.83	168.54	2.00	7.40	391.79	117.52	9,425.71	9,365.38	60.33	156.236		
14,000.00	7,136.36	100.00	115.83	171.04	2.00	7.40	391.79	117.52	9,492.26	9,431.07	61.20	155.109		
14,100.00	7,136.67	100.00	115.83	173.55	2.00	7.40	391.79	117.52	9,559.40	9,497.34	62.06	154.023		
14,200.00	7,136.98	100.00	115.83	176.05	2.00	7.40	391.79	117.52	9,627.11	9,564.18	62.93	152.975		
14,300.00	7,137.29	100.00	115.83	178.56	2.00	7.40	391.79	117.52	9,695.37	9,631.57	63.80	151.965		
14,400.00	7,137.60	100.00	115.83	181.07	2.00	7.40	391.79	117.52	9,764.19	9,699.52	64.67	150.990		
14,500.00	7,137.91	100.00	115.83	183.58	2.00	7.40	391.79	117.52	9,833.53	9,768.00	65.54	150.050		
14,600.00	7,138.22	100.00	115.83	186.09	2.00	7.40	391.79	117.52	9,903.41	9,837.00	66.40	149.142		
14,700.00	7,138.53	100.00	115.83	188.59	2.00	7.40	391.79	117.52	9,973.79	9,906.52	67.27	148.264		
14,800.00	7,138.84	100.00	115.83	191.10	2.00	7.40	391.79	117.52	10,044.68	9,976.54	68.14	147.417		
14,900.00	7,139.15	100.00	115.83	193.61	2.00	7.40	391.79	117.52	10,116.06	10,047.05	69.01	146.598		
15,000.00	7,139.46	100.00	115.83	196.13	2.00	7.40	391.79	117.52	10,187.92	10,118.05	69.87	145.806		
15,100.00	7,139.77	100.00	115.83	198.64	2.00	7.40	391.79	117.52	10,260.25	10,189.51	70.74	145.040		
15,200.00	7,140.08	100.00	115.83	201.15	2.00	7.40	391.79	117.52	10,333.05	10,261.44	71.61	144.299		
15,300.00	7,140.39	100.00	115.83	203.66	2.00	7.40	391.79	117.52	10,406.29	10,333.82	72.48	143.582		
15,400.00	7,140.70	100.00	115.83	206.17	2.00	7.40	391.79	117.52	10,479.98	10,406.64	73.34	142.888		
15,500.00	7,141.01	100.00	115.83	208.68	2.00	7.40	391.79	117.52	10,554.10	10,479.89	74.21	142.216		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Separation Factor		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.00	7,141.32	100.00	115.83	211.20	2.00	7.40	391.79	117.52	10,628.65	10,553.57	75.08	141.565	
15,700.00	7,141.63	100.00	115.83	213.71	2.00	7.40	391.79	117.52	10,703.61	10,627.66	75.95	140.935	
15,800.00	7,141.94	100.00	115.83	216.22	2.00	7.40	391.79	117.52	10,778.97	10,702.16	76.81	140.324	
15,900.00	7,142.25	100.00	115.83	218.74	2.00	7.40	391.79	117.52	10,854.74	10,777.05	77.68	139.732	
16,000.00	7,142.56	100.00	115.83	221.25	2.00	7.40	391.79	117.52	10,930.89	10,852.34	78.55	139.158	
16,100.00	7,142.87	100.00	115.83	223.77	2.00	7.40	391.79	117.52	11,007.43	10,928.01	79.42	138.601	
16,200.00	7,143.18	100.00	115.83	226.28	2.00	7.40	391.79	117.52	11,084.34	11,004.05	80.29	138.061	
16,300.00	7,143.49	100.00	115.83	228.80	2.00	7.40	391.79	117.52	11,161.61	11,080.46	81.15	137.537	
16,400.00	7,143.80	100.00	115.83	231.31	2.00	7.40	391.79	117.52	11,239.24	11,157.22	82.02	137.028	
16,500.00	7,144.11	100.00	115.83	233.83	2.00	7.40	391.79	117.52	11,317.23	11,234.34	82.89	136.535	
16,600.00	7,144.42	100.00	115.83	236.34	2.00	7.40	391.79	117.52	11,395.56	11,311.80	83.76	136.055	
16,700.00	7,144.73	100.00	115.83	238.86	2.00	7.40	391.79	117.52	11,474.22	11,389.60	84.62	135.590	
16,800.00	7,145.05	100.00	115.83	241.37	2.00	7.40	391.79	117.52	11,553.22	11,467.73	85.49	135.137	
16,900.00	7,145.36	100.00	115.83	243.89	2.00	7.40	391.79	117.52	11,632.54	11,546.18	86.36	134.698	
17,000.00	7,145.67	100.00	115.83	246.41	2.00	7.40	391.79	117.52	11,712.17	11,624.95	87.23	134.271	
17,100.00	7,145.98	100.00	115.83	248.93	2.00	7.40	391.79	117.52	11,792.12	11,704.02	88.10	133.856	
17,200.00	7,146.29	100.00	115.83	251.44	2.00	7.40	391.79	117.52	11,872.37	11,783.40	88.96	133.452	
17,300.00	7,146.60	100.00	115.83	253.96	2.00	7.40	391.79	117.52	11,952.92	11,863.08	89.83	133.059	
17,400.00	7,146.91	100.00	115.83	256.48	2.00	7.40	391.79	117.52	12,033.76	11,943.06	90.70	132.677	
17,430.36	7,147.00	100.00	115.83	257.24	2.00	7.40	391.79	117.52	12,058.36	11,967.39	90.96	132.564 SF	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	45.20	0.00	0.00	176.22	-2,302.74	152.13	2,308.20					
100.00	100.00	54.80	100.00	0.08	1.10	176.22	-2,302.74	152.13	2,307.76	2,306.58	1.18	1,955.103		
200.00	200.00	154.80	200.00	0.31	4.19	176.22	-2,302.74	152.13	2,307.76	2,303.26	4.50	512.715		
300.00	300.00	254.80	300.00	0.53	8.19	176.22	-2,302.74	152.13	2,307.76	2,299.03	8.73	264.475		
400.00	400.00	354.80	400.00	0.76	12.19	176.22	-2,302.74	152.13	2,307.76	2,294.81	12.95	178.197		
500.00	500.00	454.80	500.00	0.98	16.19	176.22	-2,302.74	152.13	2,307.76	2,290.58	17.18	134.365		
600.00	600.00	554.80	600.00	1.21	20.19	176.22	-2,302.74	152.13	2,307.76	2,286.36	21.40	107.839		
700.00	700.00	654.80	700.00	1.43	24.19	176.22	-2,302.74	152.13	2,307.76	2,282.13	25.62	90.059		
800.00	800.00	754.80	800.00	1.66	28.19	176.22	-2,302.74	152.13	2,307.76	2,277.91	29.85	77.313		
900.00	900.00	854.80	900.00	1.88	32.19	176.22	-2,302.74	152.13	2,307.76	2,273.69	34.07	67.727		
1,000.00	1,000.00	954.80	1,000.00	2.11	36.19	176.22	-2,302.74	152.13	2,307.76	2,269.46	38.30	60.256 CC		
1,100.00	1,099.98	1,054.78	1,099.98	2.33	40.19	-160.17	-2,302.74	152.13	2,309.40	2,266.90	42.50	54.337 ES		
1,200.00	1,199.84	1,154.64	1,199.84	2.56	44.19	-160.18	-2,302.74	152.13	2,314.33	2,267.68	46.65	49.614		
1,300.00	1,299.45	1,254.25	1,299.45	2.79	48.17	-160.19	-2,302.74	152.13	2,322.53	2,271.81	50.72	45.791		
1,400.00	1,398.70	1,353.50	1,398.70	3.03	52.14	-160.22	-2,302.74	152.13	2,334.00	2,279.30	54.71	42.665		
1,500.00	1,497.47	1,452.27	1,497.47	3.30	56.09	-160.25	-2,302.74	152.13	2,348.75	2,290.16	58.59	40.090		
1,600.00	1,595.62	1,550.42	1,595.62	3.61	60.02	-160.28	-2,302.74	152.13	2,366.74	2,304.39	62.35	37.959		
1,700.00	1,693.06	1,647.86	1,693.06	3.95	63.91	-160.31	-2,302.74	152.13	2,387.98	2,322.00	65.98	36.192		
1,800.00	1,789.64	1,744.44	1,789.64	4.35	67.78	-160.35	-2,302.74	152.13	2,412.45	2,342.98	69.47	34.729		
1,900.00	1,885.30	1,840.10	1,885.30	4.80	71.60	-160.43	-2,302.74	152.13	2,440.04	2,367.09	72.95	33.450		
2,000.00	1,980.64	1,935.44	1,980.64	5.29	75.42	-160.67	-2,302.74	152.13	2,468.61	2,391.71	76.89	32.104		
2,100.00	2,075.99	2,030.79	2,075.99	5.80	79.23	-160.89	-2,302.74	152.13	2,497.22	2,416.37	80.85	30.887		
2,200.00	2,171.34	2,126.14	2,171.34	6.33	83.05	-161.12	-2,302.74	152.13	2,525.86	2,441.05	84.81	29.783		
2,300.00	2,266.68	2,221.48	2,266.68	6.87	86.86	-161.33	-2,302.74	152.13	2,554.54	2,465.77	88.77	28.776		
2,400.00	2,362.03	2,316.83	2,362.03	7.41	90.67	-161.55	-2,302.74	152.13	2,583.26	2,490.52	92.74	27.855		
2,500.00	2,457.38	2,412.18	2,457.38	7.97	94.49	-161.76	-2,302.74	152.13	2,612.00	2,515.30	96.71	27.010		
2,600.00	2,552.72	2,507.52	2,552.72	8.53	98.30	-161.96	-2,302.74	152.13	2,640.78	2,540.10	100.67	26.231		
2,700.00	2,648.07	2,602.87	2,648.07	9.10	102.11	-162.16	-2,302.74	152.13	2,669.59	2,564.94	104.65	25.511		
2,800.00	2,743.42	2,698.22	2,743.42	9.67	105.93	-162.36	-2,302.74	152.13	2,698.42	2,589.81	108.62	24.844		
2,900.00	2,838.77	2,793.57	2,838.77	10.24	109.74	-162.55	-2,302.74	152.13	2,727.29	2,614.70	112.59	24.224		
3,000.00	2,934.11	2,888.91	2,934.11	10.82	113.56	-162.73	-2,302.74	152.13	2,756.18	2,639.62	116.56	23.646		
3,100.00	3,029.46	2,984.26	3,029.46	11.40	117.37	-162.92	-2,302.74	152.13	2,785.10	2,664.57	120.53	23.107		
3,200.00	3,124.81	3,079.61	3,124.81	11.98	121.18	-163.10	-2,302.74	152.13	2,814.05	2,689.54	124.50	22.603		
3,300.00	3,220.15	3,174.95	3,220.15	12.56	125.00	-163.27	-2,302.74	152.13	2,843.02	2,714.54	128.47	22.129		
3,400.00	3,315.50	3,270.30	3,315.50	13.14	128.81	-163.44	-2,302.74	152.13	2,872.01	2,739.57	132.44	21.685		
3,500.00	3,410.85	3,365.65	3,410.85	13.73	132.63	-163.61	-2,302.74	152.13	2,901.03	2,764.61	136.41	21.266		
3,600.00	3,506.19	3,460.99	3,506.19	14.32	136.44	-163.78	-2,302.74	152.13	2,930.07	2,789.69	140.38	20.872		
3,700.00	3,601.54	3,556.34	3,601.54	14.91	140.25	-163.94	-2,302.74	152.13	2,959.13	2,814.78	144.35	20.499		
3,800.00	3,696.89	3,651.69	3,679.20	15.50	143.36	-164.07	-2,302.74	152.13	2,988.27	2,840.62	147.65	20.239 SF		
3,900.00	3,792.24	3,747.04	3,679.20	16.09	143.36	-164.07	-2,302.74	152.13	3,019.44	2,871.45	147.99	20.403		
4,000.00	3,887.58	3,842.38	3,679.20	16.68	143.36	-164.07	-2,302.74	152.13	3,053.57	2,905.23	148.33	20.586		
4,100.00	3,982.93	3,937.73	3,679.20	17.27	143.36	-164.07	-2,302.74	152.13	3,090.55	2,941.88	148.67	20.787		
4,200.00	4,078.28	3,992.53	3,679.20	17.86	143.36	-164.07	-2,302.74	152.13	3,130.30	2,981.28	149.02	21.006		
4,300.00	4,173.62	4,017.38	3,679.20	18.45	143.36	-164.07	-2,302.74	152.13	3,172.70	3,023.34	149.36	21.242		
4,400.00	4,268.97	4,112.74	3,679.20	19.05	143.36	-164.07	-2,302.74	152.13	3,217.65	3,067.95	149.70	21.493		
4,500.00	4,364.32	4,208.50	3,679.20	19.64	143.36	-164.07	-2,302.74	152.13	3,265.05	3,115.00	150.05	21.760		
4,600.00	4,459.67	4,303.77	3,679.20	20.23	143.36	-164.07	-2,302.74	152.13	3,314.79	3,164.39	150.39	22.041		
4,700.00	4,555.01	4,399.01	3,679.20	20.83	143.36	-164.07	-2,302.74	152.13	3,366.76	3,216.02	150.74	22.335		
4,800.00	4,650.36	4,494.21	3,679.20	21.42	143.36	-164.07	-2,302.74	152.13	3,420.87	3,269.78	151.08	22.642		
4,900.00	4,745.71	4,589.41	3,679.20	22.02	143.36	-164.07	-2,302.74	152.13	3,477.01	3,325.58	151.43	22.961		
5,000.00	4,841.05	4,685.21	3,679.20	22.61	143.36	-164.07	-2,302.74	152.13	3,535.09	3,383.31	151.77	23.292		
5,100.00	4,936.40	4,780.56	3,679.20	23.21	143.36	-164.07	-2,302.74	152.13	3,595.01	3,442.89	152.12	23.633		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221J - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,031.75	3,634.00	3,679.20	23.80	143.36	-164.07	-2,302.74	152.13	3,656.69	3,504.22	152.47	23.983		
5,300.00	5,127.09	3,634.00	3,679.20	24.40	143.36	-164.07	-2,302.74	152.13	3,720.03	3,567.21	152.81	24.344		
5,400.00	5,222.44	3,634.00	3,679.20	25.00	143.36	-164.07	-2,302.74	152.13	3,784.95	3,631.79	153.16	24.712		
5,500.00	5,317.79	3,634.00	3,679.20	25.59	143.36	-164.07	-2,302.74	152.13	3,851.38	3,697.87	153.51	25.089		
5,600.00	5,413.14	3,634.00	3,679.20	26.19	143.36	-164.07	-2,302.74	152.13	3,919.23	3,765.38	153.85	25.474		
5,700.00	5,508.48	3,634.00	3,679.20	26.78	143.36	-164.08	-2,302.74	152.13	3,988.44	3,834.22	154.22	25.862		
5,800.00	5,604.35	3,634.00	3,679.20	27.24	143.36	-164.60	-2,302.74	152.13	4,057.70	3,901.98	155.72	26.058		
5,900.00	5,701.15	3,634.00	3,679.20	27.65	143.36	-165.08	-2,302.74	152.13	4,125.82	3,968.77	157.05	26.271		
6,000.00	5,798.77	3,634.00	3,679.20	28.02	143.36	-165.54	-2,302.74	152.13	4,192.76	4,034.56	158.20	26.503		
6,100.00	5,897.08	3,634.00	3,679.20	28.35	143.36	-165.97	-2,302.74	152.13	4,258.52	4,099.35	159.17	26.754		
6,200.00	5,995.98	3,634.00	3,679.20	28.63	143.36	-166.38	-2,302.74	152.13	4,323.05	4,163.10	159.96	27.027		
6,300.00	6,095.33	3,634.00	3,679.20	28.87	143.36	-166.76	-2,302.74	152.13	4,386.35	4,225.80	160.55	27.321		
6,400.00	6,195.01	3,634.00	3,679.20	29.06	143.36	-167.11	-2,302.74	152.13	4,448.38	4,287.43	160.95	27.638		
6,500.00	6,294.91	3,634.00	3,679.20	29.20	143.36	-167.45	-2,302.74	152.13	4,509.13	4,347.97	161.16	27.980		
6,600.00	6,394.89	3,634.00	3,679.20	29.30	143.36	77.45	-2,302.74	152.13	4,568.58	4,407.60	160.99	28.379		
6,700.00	6,494.28	3,634.00	3,679.20	29.34	143.36	71.93	-2,302.74	152.13	4,626.78	4,466.66	160.12	28.896		
6,800.00	6,591.26	3,634.00	3,679.20	29.31	143.36	66.86	-2,302.74	152.13	4,682.88	4,524.10	158.78	29.493		
6,900.00	6,683.95	3,634.00	3,679.20	29.23	143.36	62.34	-2,302.74	152.13	4,735.89	4,579.44	156.45	30.271		
7,000.00	6,770.55	3,634.00	3,679.20	29.09	143.36	58.43	-2,302.74	152.13	4,784.90	4,632.13	152.77	31.320		
7,100.00	6,849.36	3,634.00	3,679.20	28.92	143.36	55.13	-2,302.74	152.13	4,829.09	4,681.40	147.69	32.698		
7,200.00	6,918.86	3,634.00	3,679.20	28.73	143.36	52.43	-2,302.74	152.13	4,867.74	4,726.27	141.47	34.407		
7,300.00	6,977.70	3,634.00	3,679.20	28.54	143.36	50.28	-2,302.74	152.13	4,900.24	4,765.52	134.72	36.375		
7,400.00	7,027.98	3,634.00	3,679.20	28.35	143.36	49.56	-2,302.74	152.13	4,928.40	4,795.76	132.64	37.157		
7,500.00	7,070.01	3,634.00	3,679.20	28.19	143.36	48.06	-2,302.74	152.13	4,952.58	4,826.08	126.51	39.149		
7,600.00	7,099.01	3,634.00	3,679.20	28.06	143.36	47.04	-2,302.74	152.13	4,969.58	4,847.55	122.04	40.722		
7,700.00	7,114.42	3,634.00	3,679.20	27.97	143.36	46.48	-2,302.74	152.13	4,979.14	4,859.02	120.12	41.453		
7,800.00	7,117.13	3,634.00	3,679.20	28.00	143.36	46.36	-2,302.74	152.13	4,981.93	4,860.91	121.02	41.167		
7,900.00	7,117.44	3,634.00	3,679.20	28.26	143.36	46.36	-2,302.74	152.13	4,985.06	4,862.42	122.64	40.649		
8,000.00	7,117.75	3,634.00	3,679.20	28.94	143.36	46.36	-2,302.74	152.13	4,990.20	4,865.81	124.38	40.119		
8,100.00	7,118.06	3,634.00	3,679.20	30.16	143.36	46.36	-2,302.74	152.13	4,997.33	4,871.10	126.23	39.589		
8,200.00	7,118.37	3,634.00	3,679.20	31.76	143.36	46.36	-2,302.74	152.13	5,006.46	4,878.30	128.15	39.066		
8,300.00	7,118.68	3,634.00	3,679.20	33.58	143.36	46.36	-2,302.74	152.13	5,017.55	4,887.41	130.14	38.555		
8,400.00	7,118.99	3,634.00	3,679.20	35.53	143.36	46.36	-2,302.74	152.13	5,030.62	4,898.44	132.17	38.061		
8,500.00	7,119.30	3,634.00	3,679.20	37.56	143.36	46.36	-2,302.74	152.13	5,045.63	4,911.38	134.25	37.585		
8,600.00	7,119.61	3,634.00	3,679.20	39.66	143.36	46.36	-2,302.74	152.13	5,062.57	4,926.22	136.35	37.129		
8,700.00	7,119.92	3,634.00	3,679.20	41.80	143.36	46.36	-2,302.74	152.13	5,081.42	4,942.94	138.48	36.694		
8,800.00	7,120.23	3,634.00	3,679.20	43.99	143.36	46.36	-2,302.74	152.13	5,102.17	4,961.54	140.63	36.280		
8,900.00	7,120.54	3,634.00	3,679.20	46.22	143.36	46.36	-2,302.74	152.13	5,124.78	4,981.98	142.80	35.888		
9,000.00	7,120.85	3,634.00	3,679.20	48.47	143.36	46.36	-2,302.74	152.13	5,149.24	5,004.25	144.98	35.516		
9,100.00	7,121.16	3,634.00	3,679.20	50.75	143.36	46.36	-2,302.74	152.13	5,175.51	5,028.33	147.18	35.164		
9,200.00	7,121.47	3,634.00	3,679.20	53.05	143.36	46.36	-2,302.74	152.13	5,203.57	5,054.18	149.39	34.832		
9,300.00	7,121.78	3,634.00	3,679.20	55.37	143.36	46.36	-2,302.74	152.13	5,233.39	5,081.79	151.61	34.520		
9,400.00	7,122.09	3,634.00	3,679.20	57.71	143.36	46.36	-2,302.74	152.13	5,264.95	5,111.11	153.83	34.225		
9,500.00	7,122.40	3,634.00	3,679.20	60.06	143.36	46.36	-2,302.74	152.13	5,298.20	5,142.14	156.06	33.949		
9,600.00	7,122.71	3,634.00	3,679.20	62.43	143.36	46.36	-2,302.74	152.13	5,333.12	5,174.82	158.30	33.689		
9,700.00	7,123.02	3,634.00	3,679.20	64.80	143.36	46.36	-2,302.74	152.13	5,369.68	5,209.13	160.55	33.446		
9,800.00	7,123.33	3,634.00	3,679.20	67.19	143.36	46.36	-2,302.74	152.13	5,407.84	5,245.04	162.80	33.219		
9,900.00	7,123.65	3,634.00	3,679.20	69.59	143.36	46.36	-2,302.74	152.13	5,447.56	5,282.51	165.05	33.006		
10,000.00	7,123.96	3,634.00	3,679.20	71.99	143.36	46.36	-2,302.74	152.13	5,488.82	5,321.52	167.31	32.807		
10,100.00	7,124.27	3,634.00	3,679.20	74.40	143.36	46.36	-2,302.74	152.13	5,531.59	5,362.02	169.57	32.622		
10,200.00	7,124.58	3,634.00	3,679.20	76.82	143.36	46.36	-2,302.74	152.13	5,575.81	5,403.98	171.83	32.450		
10,300.00	7,124.89	3,634.00	3,679.20	79.25	143.36	46.36	-2,302.74	152.13	5,621.47	5,447.38	174.10	32.289		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



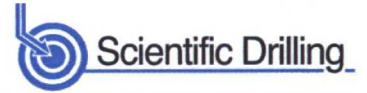
Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offet Design NEBU 604 Pad - NEBU 221J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	3,634.00	3,679.20	81.68	143.36	46.36	-2,302.74	152.13	5,668.53	5,492.16	176.36	32.141		
10,500.00	7,125.51	3,634.00	3,679.20	84.12	143.36	46.36	-2,302.74	152.13	5,716.95	5,538.31	178.64	32.003		
10,600.00	7,125.82	3,634.00	3,679.20	86.56	143.36	46.36	-2,302.74	152.13	5,766.69	5,585.78	180.91	31.876		
10,700.00	7,126.13	3,634.00	3,679.20	89.01	143.36	46.36	-2,302.74	152.13	5,817.73	5,634.55	183.18	31.759		
10,800.00	7,126.44	3,634.00	3,679.20	91.46	143.36	46.36	-2,302.74	152.13	5,870.03	5,684.57	185.46	31.651		
10,900.00	7,126.75	3,634.00	3,679.20	93.91	143.36	46.36	-2,302.74	152.13	5,923.55	5,735.81	187.74	31.552		
11,000.00	7,127.06	3,634.00	3,679.20	96.37	143.36	46.36	-2,302.74	152.13	5,978.27	5,788.25	190.02	31.461		
11,100.00	7,127.37	3,634.00	3,679.20	98.83	143.36	46.36	-2,302.74	152.13	6,034.15	5,841.85	192.30	31.379		
11,200.00	7,127.68	3,634.00	3,679.20	101.30	143.36	46.36	-2,302.74	152.13	6,091.16	5,896.58	194.58	31.304		
11,300.00	7,127.99	3,634.00	3,679.20	103.77	143.36	46.36	-2,302.74	152.13	6,149.27	5,952.40	196.87	31.236		
11,400.00	7,128.30	3,634.00	3,679.20	106.24	143.36	46.36	-2,302.74	152.13	6,208.44	6,009.29	199.15	31.174		
11,500.00	7,128.61	3,634.00	3,679.20	108.71	143.36	46.36	-2,302.74	152.13	6,268.65	6,067.22	201.44	31.120		
11,600.00	7,128.92	3,634.00	3,679.20	111.19	143.36	46.36	-2,302.74	152.13	6,329.87	6,126.15	203.72	31.071		
11,700.00	7,129.23	3,634.00	3,679.20	113.66	143.36	46.36	-2,302.74	152.13	6,392.07	6,186.06	206.01	31.028		
11,800.00	7,129.54	3,634.00	3,679.20	116.14	143.36	46.36	-2,302.74	152.13	6,455.21	6,246.91	208.30	30.990		
11,900.00	7,129.85	3,634.00	3,679.20	118.62	143.36	46.36	-2,302.74	152.13	6,519.28	6,308.69	210.59	30.957		
12,000.00	7,130.16	3,634.00	3,679.20	121.11	143.36	46.36	-2,302.74	152.13	6,584.25	6,371.37	212.88	30.929		
12,100.00	7,130.47	3,634.00	3,679.20	123.59	143.36	46.36	-2,302.74	152.13	6,650.08	6,434.91	215.17	30.906		
12,200.00	7,130.78	3,634.00	3,679.20	126.08	143.36	46.36	-2,302.74	152.13	6,716.76	6,499.29	217.46	30.887		
12,300.00	7,131.09	3,634.00	3,679.20	128.57	143.36	46.36	-2,302.74	152.13	6,784.25	6,564.50	219.75	30.872		
12,400.00	7,131.40	3,634.00	3,679.20	131.06	143.36	46.36	-2,302.74	152.13	6,852.54	6,630.50	222.05	30.861		
12,500.00	7,131.71	3,634.00	3,679.20	133.55	143.36	46.36	-2,302.74	152.13	6,921.60	6,697.26	224.34	30.853		
12,600.00	7,132.02	3,634.00	3,679.20	136.04	143.36	46.36	-2,302.74	152.13	6,991.41	6,764.78	226.63	30.849		
12,700.00	7,132.33	3,634.00	3,679.20	138.54	143.36	46.36	-2,302.74	152.13	7,061.95	6,833.02	228.93	30.848		
12,800.00	7,132.64	3,634.00	3,679.20	141.03	143.36	46.36	-2,302.74	152.13	7,133.19	6,901.97	231.22	30.850		
12,900.00	7,132.95	3,634.00	3,679.20	143.53	143.36	46.36	-2,302.74	152.13	7,205.11	6,971.59	233.52	30.855		
13,000.00	7,133.26	3,634.00	3,679.20	146.02	143.36	46.36	-2,302.74	152.13	7,277.70	7,041.89	235.81	30.862		
13,100.00	7,133.57	3,634.00	3,679.20	148.52	143.36	46.36	-2,302.74	152.13	7,350.93	7,112.82	238.11	30.873		
13,200.00	7,133.88	3,634.00	3,679.20	151.02	143.36	46.36	-2,302.74	152.13	7,424.78	7,184.38	240.40	30.885		
13,300.00	7,134.19	3,634.00	3,679.20	153.52	143.36	46.36	-2,302.74	152.13	7,499.24	7,256.54	242.70	30.899		
13,400.00	7,134.50	3,634.00	3,679.20	156.02	143.36	46.36	-2,302.74	152.13	7,574.29	7,329.30	244.99	30.916		
13,500.00	7,134.81	3,634.00	3,679.20	158.52	143.36	46.36	-2,302.74	152.13	7,649.91	7,402.62	247.29	30.935		
13,600.00	7,135.12	3,634.00	3,679.20	161.03	143.36	46.36	-2,302.74	152.13	7,726.09	7,476.50	249.59	30.955		
13,700.00	7,135.43	3,634.00	3,679.20	163.53	143.36	46.36	-2,302.74	152.13	7,802.80	7,550.91	251.89	30.978		
13,800.00	7,135.74	3,634.00	3,679.20	166.03	143.36	46.36	-2,302.74	152.13	7,880.03	7,625.85	254.18	31.001		
13,900.00	7,136.05	3,634.00	3,679.20	168.54	143.36	46.36	-2,302.74	152.13	7,957.77	7,701.29	256.48	31.027		
14,000.00	7,136.36	3,634.00	3,679.20	171.04	143.36	46.36	-2,302.74	152.13	8,036.01	7,777.23	258.78	31.054		
14,100.00	7,136.67	3,634.00	3,679.20	173.55	143.36	46.36	-2,302.74	152.13	8,114.72	7,853.64	261.08	31.082		
14,200.00	7,136.98	3,634.00	3,679.20	176.05	143.36	46.36	-2,302.74	152.13	8,193.90	7,930.52	263.38	31.111		
14,300.00	7,137.29	3,634.00	3,679.20	178.56	143.36	46.36	-2,302.74	152.13	8,273.52	8,007.85	265.68	31.142		
14,400.00	7,137.60	3,634.00	3,679.20	181.07	143.36	46.36	-2,302.74	152.13	8,353.59	8,085.61	267.97	31.173		
14,500.00	7,137.91	3,634.00	3,679.20	183.58	143.36	46.36	-2,302.74	152.13	8,434.08	8,163.81	270.27	31.206		
14,600.00	7,138.22	3,634.00	3,679.20	186.09	143.36	46.36	-2,302.74	152.13	8,514.98	8,242.41	272.57	31.239		
14,700.00	7,138.53	3,634.00	3,679.20	188.59	143.36	46.36	-2,302.74	152.13	8,596.29	8,321.42	274.87	31.274		
14,800.00	7,138.84	3,634.00	3,679.20	191.10	143.36	46.36	-2,302.74	152.13	8,677.99	8,400.81	277.17	31.309		
14,900.00	7,139.15	3,634.00	3,679.20	193.61	143.36	46.36	-2,302.74	152.13	8,760.06	8,480.59	279.47	31.345		
15,000.00	7,139.46	3,634.00	3,679.20	196.13	143.36	46.36	-2,302.74	152.13	8,842.51	8,560.74	281.77	31.382		
15,100.00	7,139.77	3,634.00	3,679.20	198.64	143.36	46.36	-2,302.74	152.13	8,925.31	8,641.24	284.07	31.419		
15,200.00	7,140.08	3,634.00	3,679.20	201.15	143.36	46.36	-2,302.74	152.13	9,008.47	8,722.09	286.37	31.457		
15,300.00	7,140.39	3,634.00	3,679.20	203.66	143.36	46.36	-2,302.74	152.13	9,091.96	8,803.29	288.67	31.496		
15,400.00	7,140.70	3,634.00	3,679.20	206.17	143.36	46.36	-2,302.74	152.13	9,175.78	8,884.81	290.97	31.535		
15,500.00	7,141.01	3,634.00	3,679.20	208.68	143.36	46.36	-2,302.74	152.13	9,259.93	8,966.65	293.27	31.574		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 221J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis				Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,600.00	7,141.32	3,634.00	3,679.20	211.20	143.36	46.36	-2,302.74	152.13	9,344.38	9,048.81	295.58	31.614		
15,700.00	7,141.63	3,634.00	3,679.20	213.71	143.36	46.36	-2,302.74	152.13	9,429.14	9,131.27	297.88	31.655		
15,800.00	7,141.94	3,634.00	3,679.20	216.22	143.36	46.36	-2,302.74	152.13	9,514.20	9,214.02	300.18	31.695		
15,900.00	7,142.25	3,634.00	3,679.20	218.74	143.36	46.36	-2,302.74	152.13	9,599.55	9,297.07	302.48	31.736		
16,000.00	7,142.56	3,634.00	3,679.20	221.25	143.36	46.36	-2,302.74	152.13	9,685.17	9,380.39	304.78	31.778		
16,100.00	7,142.87	3,634.00	3,679.20	223.77	143.36	46.36	-2,302.74	152.13	9,771.07	9,463.99	307.08	31.819		
16,200.00	7,143.18	3,634.00	3,679.20	226.28	143.36	46.36	-2,302.74	152.13	9,857.23	9,547.85	309.38	31.861		
16,300.00	7,143.49	3,634.00	3,679.20	228.80	143.36	46.36	-2,302.74	152.13	9,943.66	9,631.97	311.68	31.903		
16,400.00	7,143.80	3,634.00	3,679.20	231.31	143.36	46.36	-2,302.74	152.13	10,030.33	9,716.34	313.99	31.945		
16,500.00	7,144.11	3,634.00	3,679.20	233.83	143.36	46.36	-2,302.74	152.13	10,117.25	9,800.96	316.29	31.987		
16,600.00	7,144.42	3,634.00	3,679.20	236.34	143.36	46.36	-2,302.74	152.13	10,204.41	9,885.82	318.59	32.030		
16,700.00	7,144.73	3,634.00	3,679.20	238.86	143.36	46.36	-2,302.74	152.13	10,291.81	9,970.92	320.89	32.072		
16,800.00	7,145.05	3,634.00	3,679.20	241.37	143.36	46.36	-2,302.74	152.13	10,379.43	10,056.24	323.19	32.115		
16,900.00	7,145.36	3,634.00	3,679.20	243.89	143.36	46.36	-2,302.74	152.13	10,467.27	10,141.78	325.50	32.158		
17,000.00	7,145.67	3,634.00	3,679.20	246.41	143.36	46.36	-2,302.74	152.13	10,555.33	10,227.53	327.80	32.201		
17,100.00	7,145.98	3,634.00	3,679.20	248.93	143.36	46.36	-2,302.74	152.13	10,643.61	10,313.50	330.10	32.243		
17,200.00	7,146.29	3,634.00	3,679.20	251.44	143.36	46.36	-2,302.74	152.13	10,732.08	10,399.68	332.40	32.286		
17,300.00	7,146.60	3,634.00	3,679.20	253.96	143.36	46.36	-2,302.74	152.13	10,820.76	10,486.05	334.71	32.329		
17,400.00	7,146.91	3,634.00	3,679.20	256.48	143.36	46.36	-2,302.74	152.13	10,909.63	10,572.62	337.01	32.372		
17,430.36	7,147.00	3,634.00	3,679.20	257.24	143.36	46.36	-2,302.74	152.13	10,936.65	10,598.95	337.71	32.385		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 229J - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.37	0.00	0.00	0.05	51.44	2,847.80	3,572.14	4,568.39				
100.00	100.00	102.37	100.00	0.08	2.09	51.44	2,847.80	3,572.14	4,568.39	4,566.21	2.18	2,096.467	
200.00	200.00	202.37	200.00	0.31	6.09	51.44	2,847.80	3,572.14	4,568.39	4,561.98	6.40	713.381	
300.00	300.00	302.37	300.00	0.53	10.09	51.44	2,847.80	3,572.14	4,568.39	4,557.76	10.63	429.819	
400.00	400.00	402.37	400.00	0.76	14.09	51.44	2,847.80	3,572.14	4,568.39	4,553.53	14.85	307.565	
500.00	500.00	502.37	500.00	0.98	18.09	51.44	2,847.80	3,572.14	4,568.39	4,549.31	19.08	239.456	
600.00	600.00	602.37	600.00	1.21	22.09	51.44	2,847.80	3,572.14	4,568.39	4,545.08	23.30	196.044	
700.00	700.00	702.37	700.00	1.43	26.09	51.44	2,847.80	3,572.14	4,568.39	4,540.86	27.53	165.956	
800.00	800.00	802.37	800.00	1.66	30.09	51.44	2,847.80	3,572.14	4,568.39	4,536.63	31.75	143.875	
900.00	900.00	902.37	900.00	1.88	34.09	51.44	2,847.80	3,572.14	4,568.39	4,532.41	35.98	126.980	
1,000.00	1,000.00	1,002.37	1,000.00	2.11	38.09	51.44	2,847.80	3,572.14	4,568.39	4,528.18	40.20	113.636	
1,100.00	1,099.98	1,102.35	1,099.98	2.33	42.09	75.08	2,847.80	3,572.14	4,567.94	4,523.51	44.42	102.828	
1,200.00	1,199.84	1,202.21	1,199.84	2.56	46.09	75.17	2,847.80	3,572.14	4,566.59	4,517.96	48.64	93.894	
1,300.00	1,299.45	1,301.82	1,299.45	2.79	50.07	75.32	2,847.80	3,572.14	4,564.36	4,511.52	52.84	86.378	
1,400.00	1,398.70	1,401.07	1,398.70	3.03	54.04	75.53	2,847.80	3,572.14	4,561.28	4,504.23	57.04	79.963	
1,500.00	1,497.47	1,499.84	1,497.47	3.30	57.99	75.79	2,847.80	3,572.14	4,557.36	4,496.11	61.24	74.415	
1,600.00	1,595.62	1,597.99	1,595.62	3.61	61.92	76.11	2,847.80	3,572.14	4,552.64	4,487.20	65.45	69.563	
1,700.00	1,693.06	1,695.43	1,693.06	3.95	65.82	76.49	2,847.80	3,572.14	4,547.18	4,477.52	69.66	65.278	
1,800.00	1,789.64	1,792.01	1,789.64	4.35	69.68	76.92	2,847.80	3,572.14	4,541.03	4,467.15	73.88	61.462	
1,900.00	1,885.30	1,887.67	1,885.30	4.80	73.51	77.36	2,847.80	3,572.14	4,534.27	4,456.14	78.13	58.034	
2,000.00	1,980.64	1,983.01	1,980.64	5.29	77.32	77.72	2,847.80	3,572.14	4,527.46	4,445.03	82.43	54.926	
2,100.00	2,075.99	2,078.36	2,075.99	5.80	81.13	78.07	2,847.80	3,572.14	4,520.85	4,434.10	86.75	52.115	
2,200.00	2,171.34	2,173.71	2,171.34	6.33	84.95	78.43	2,847.80	3,572.14	4,514.42	4,423.34	91.08	49.563	
2,300.00	2,266.68	2,269.05	2,266.68	6.87	88.76	78.79	2,847.80	3,572.14	4,508.19	4,412.75	95.44	47.238	
2,400.00	2,362.03	2,364.40	2,362.03	7.41	92.58	79.15	2,847.80	3,572.14	4,502.15	4,402.36	99.80	45.113	
2,500.00	2,457.38	2,459.75	2,457.38	7.97	96.39	79.51	2,847.80	3,572.14	4,496.31	4,392.14	104.17	43.165	
2,600.00	2,552.72	2,555.09	2,552.72	8.53	100.20	79.87	2,847.80	3,572.14	4,490.66	4,382.11	108.54	41.372	
2,700.00	2,648.07	2,650.44	2,648.07	9.10	104.02	80.23	2,847.80	3,572.14	4,485.20	4,372.28	112.93	39.718	
2,800.00	2,743.42	2,745.79	2,743.42	9.67	107.83	80.60	2,847.80	3,572.14	4,479.94	4,362.63	117.32	38.187	
2,900.00	2,838.77	2,841.14	2,838.77	10.24	111.65	80.96	2,847.80	3,572.14	4,474.88	4,353.17	121.71	36.767	
3,000.00	2,934.11	2,936.48	2,934.11	10.82	115.46	81.32	2,847.80	3,572.14	4,470.02	4,343.91	126.11	35.447	
3,100.00	3,029.46	3,031.83	3,029.46	11.40	119.27	81.69	2,847.80	3,572.14	4,465.35	4,334.85	130.51	34.216	
3,200.00	3,124.81	3,127.18	3,124.81	11.98	123.09	82.05	2,847.80	3,572.14	4,460.89	4,325.98	134.91	33.066	
3,300.00	3,220.15	3,222.52	3,220.15	12.56	126.90	82.42	2,847.80	3,572.14	4,456.62	4,317.31	139.31	31.990	
3,400.00	3,315.50	3,317.87	3,315.50	13.14	130.71	82.79	2,847.80	3,572.14	4,452.55	4,308.83	143.72	30.980	
3,500.00	3,410.85	3,413.22	3,410.85	13.73	134.53	83.16	2,847.80	3,572.14	4,448.69	4,300.56	148.13	30.032	
3,600.00	3,506.19	3,508.56	3,506.19	14.32	138.34	83.52	2,847.80	3,572.14	4,445.02	4,292.48	152.54	29.140	
3,700.00	3,601.54	3,603.91	3,601.54	14.91	142.16	83.89	2,847.80	3,572.14	4,441.56	4,284.61	156.95	28.299	
3,800.00	3,696.89	3,698.00	3,677.63	15.50	145.20	84.19	2,847.80	3,572.14	4,438.34	4,277.75	160.59	27.637	
3,900.00	3,792.24	3,680.00	3,677.63	16.09	145.20	84.19	2,847.80	3,572.14	4,436.72	4,275.54	161.18	27.526	
3,921.89	3,813.11	3,680.00	3,677.63	16.21	145.20	84.19	2,847.80	3,572.14	4,436.67	4,275.36	161.31	27.504	
4,000.00	3,887.58	3,680.00	3,677.63	16.68	145.20	84.19	2,847.80	3,572.14	4,437.35	4,275.58	161.77	27.430	
4,100.00	3,982.93	3,680.00	3,677.63	17.27	145.20	84.19	2,847.80	3,572.14	4,440.24	4,277.88	162.36	27.348	
4,200.00	4,078.28	3,680.00	3,677.63	17.86	145.20	84.19	2,847.80	3,572.14	4,445.37	4,282.42	162.95	27.280	
4,300.00	4,173.62	3,680.00	3,677.63	18.45	145.20	84.19	2,847.80	3,572.14	4,452.75	4,289.21	163.54	27.227	
4,400.00	4,268.97	3,680.00	3,677.63	19.05	145.20	84.19	2,847.80	3,572.14	4,462.35	4,298.22	164.13	27.187	
4,500.00	4,364.32	3,680.00	3,677.63	19.64	145.20	84.19	2,847.80	3,572.14	4,474.17	4,309.45	164.72	27.162	
4,600.00	4,459.67	3,680.00	3,677.63	20.23	145.20	84.19	2,847.80	3,572.14	4,488.19	4,322.87	165.32	27.149 SF	
4,700.00	4,555.01	3,680.00	3,677.63	20.83	145.20	84.19	2,847.80	3,572.14	4,504.38	4,338.47	165.91	27.150	
4,800.00	4,650.36	3,680.00	3,677.63	21.42	145.20	84.19	2,847.80	3,572.14	4,522.73	4,356.23	166.50	27.163	
4,900.00	4,745.71	3,680.00	3,677.63	22.02	145.20	84.19	2,847.80	3,572.14	4,543.20	4,376.11	167.09	27.189	
5,000.00	4,841.05	3,680.00	3,677.63	22.61	145.20	84.19	2,847.80	3,572.14	4,565.78	4,398.09	167.69	27.228	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 229J - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
5,100.00	4,936.40	3,680.00	3,677.63	23.21	145.20	84.19	2,847.80	3,572.14	4,590.42	4,422.14	168.28	27.278		
5,200.00	5,031.75	3,680.00	3,677.63	23.80	145.20	84.19	2,847.80	3,572.14	4,617.09	4,448.22	168.88	27.340		
5,300.00	5,127.09	3,680.00	3,677.63	24.40	145.20	84.19	2,847.80	3,572.14	4,645.77	4,476.30	169.47	27.414		
5,400.00	5,222.44	3,680.00	3,677.63	25.00	145.20	84.19	2,847.80	3,572.14	4,676.41	4,506.35	170.06	27.498		
5,500.00	5,317.79	3,680.00	3,677.63	25.59	145.20	84.19	2,847.80	3,572.14	4,708.97	4,538.31	170.66	27.593		
5,600.00	5,413.14	3,680.00	3,677.63	26.19	145.20	84.19	2,847.80	3,572.14	4,743.42	4,572.17	171.25	27.698		
5,700.00	5,508.48	3,680.00	3,677.63	26.78	145.20	84.20	2,847.80	3,572.14	4,779.71	4,607.87	171.85	27.814		
5,800.00	5,604.35	3,680.00	3,677.63	27.24	145.20	85.02	2,847.80	3,572.14	4,817.97	4,645.62	172.35	27.954		
5,900.00	5,701.15	3,680.00	3,677.63	27.65	145.20	85.90	2,847.80	3,572.14	4,858.26	4,685.46	172.80	28.115		
6,000.00	5,798.77	3,680.00	3,677.63	28.02	145.20	86.83	2,847.80	3,572.14	4,900.48	4,727.28	173.20	28.294		
6,100.00	5,897.08	3,680.00	3,677.63	28.35	145.20	87.81	2,847.80	3,572.14	4,944.54	4,771.00	173.54	28.492		
6,200.00	5,995.98	3,680.00	3,677.63	28.63	145.20	88.84	2,847.80	3,572.14	4,990.33	4,816.50	173.83	28.708		
6,300.00	6,095.33	3,680.00	3,677.63	28.87	145.20	89.92	2,847.80	3,572.14	5,037.75	4,863.69	174.07	28.942		
6,400.00	6,195.01	3,680.00	3,677.63	29.06	145.20	91.04	2,847.80	3,572.14	5,086.70	4,912.45	174.25	29.192		
6,500.00	6,294.91	3,680.00	3,677.63	29.20	145.20	92.21	2,847.80	3,572.14	5,137.08	4,962.70	174.38	29.459		
6,600.00	6,394.89	3,680.00	3,677.63	29.30	145.20	-19.97	2,847.80	3,572.14	5,188.46	5,014.09	174.36	29.756		
6,700.00	6,494.28	3,680.00	3,677.63	29.34	145.20	-18.65	2,847.80	3,572.14	5,233.03	5,060.91	172.12	30.403		
6,800.00	6,591.26	3,680.00	3,677.63	29.31	145.20	-17.74	2,847.80	3,572.14	5,267.08	5,100.29	166.79	31.579		
6,900.00	6,683.95	3,680.00	3,677.63	29.23	145.20	-17.17	2,847.80	3,572.14	5,290.14	5,131.64	158.50	33.375		
7,000.00	6,770.55	3,680.00	3,677.63	29.09	145.20	-16.89	2,847.80	3,572.14	5,301.91	5,154.39	147.52	35.939		
7,100.00	6,849.36	3,680.00	3,677.63	28.92	145.20	-16.89	2,847.80	3,572.14	5,302.24	5,167.99	134.25	39.495		
7,200.00	6,918.86	3,680.00	3,677.63	28.73	145.20	-17.15	2,847.80	3,572.14	5,291.11	5,171.84	119.28	44.360		
7,300.00	6,977.70	3,680.00	3,677.63	28.54	145.20	-17.70	2,847.80	3,572.14	5,268.69	5,165.18	103.51	50.902		
7,400.00	7,027.98	3,680.00	3,677.63	28.35	145.20	-18.01	2,847.80	3,572.14	5,238.57	5,141.26	97.31	53.833		
7,500.00	7,070.01	3,680.00	3,677.63	28.19	145.20	-19.01	2,847.80	3,572.14	5,201.87	5,118.80	83.07	62.621		
7,600.00	7,099.01	3,680.00	3,677.63	28.06	145.20	-20.45	2,847.80	3,572.14	5,154.78	5,081.70	73.08	70.539		
7,700.00	7,114.42	3,680.00	3,677.63	27.97	145.20	-22.48	2,847.80	3,572.14	5,097.95	5,027.08	70.87	71.934		
7,800.00	7,117.13	3,680.00	3,677.63	28.00	145.20	-24.03	2,847.80	3,572.14	5,032.97	4,958.54	74.44	67.615		
7,900.00	7,117.44	3,680.00	3,677.63	28.26	145.20	-24.03	2,847.80	3,572.14	4,967.45	4,892.17	75.28	65.982		
8,000.00	7,117.75	3,680.00	3,677.63	28.94	145.20	-24.03	2,847.80	3,572.14	4,903.09	4,826.91	76.18	64.362		
8,100.00	7,118.06	3,680.00	3,677.63	30.16	145.20	-24.03	2,847.80	3,572.14	4,839.94	4,762.83	77.11	62.763		
8,200.00	7,118.37	3,680.00	3,677.63	31.76	145.20	-24.03	2,847.80	3,572.14	4,778.05	4,699.97	78.08	61.191		
8,300.00	7,118.68	3,680.00	3,677.63	33.58	145.20	-24.03	2,847.80	3,572.14	4,717.47	4,638.38	79.08	59.653		
8,400.00	7,118.99	3,680.00	3,677.63	35.53	145.20	-24.03	2,847.80	3,572.14	4,658.24	4,578.14	80.10	58.152		
8,500.00	7,119.30	3,680.00	3,677.63	37.56	145.20	-24.03	2,847.80	3,572.14	4,600.43	4,519.28	81.15	56.691		
8,600.00	7,119.61	3,680.00	3,677.63	39.66	145.20	-24.03	2,847.80	3,572.14	4,544.08	4,461.87	82.21	55.273		
8,700.00	7,119.92	3,680.00	3,677.63	41.80	145.20	-24.03	2,847.80	3,572.14	4,489.25	4,405.96	83.29	53.899		
8,800.00	7,120.23	3,680.00	3,677.63	43.99	145.20	-24.03	2,847.80	3,572.14	4,436.00	4,351.62	84.38	52.570		
8,900.00	7,120.54	3,680.00	3,677.63	46.22	145.20	-24.03	2,847.80	3,572.14	4,384.39	4,298.90	85.49	51.286		
9,000.00	7,120.85	3,680.00	3,677.63	48.47	145.20	-24.03	2,847.80	3,572.14	4,334.47	4,247.86	86.60	50.049		
9,100.00	7,121.16	3,680.00	3,677.63	50.75	145.20	-24.03	2,847.80	3,572.14	4,286.30	4,198.57	87.73	48.858		
9,200.00	7,121.47	3,680.00	3,677.63	53.05	145.20	-24.03	2,847.80	3,572.14	4,239.94	4,151.07	88.86	47.713		
9,300.00	7,121.78	3,680.00	3,677.63	55.37	145.20	-24.03	2,847.80	3,572.14	4,195.45	4,105.44	90.01	46.613		
9,400.00	7,122.09	3,680.00	3,677.63	57.71	145.20	-24.03	2,847.80	3,572.14	4,152.89	4,061.74	91.15	45.559		
9,500.00	7,122.40	3,680.00	3,677.63	60.06	145.20	-24.03	2,847.80	3,572.14	4,112.33	4,020.02	92.31	44.550		
9,600.00	7,122.71	3,680.00	3,677.63	62.43	145.20	-24.03	2,847.80	3,572.14	4,073.82	3,980.35	93.47	43.586		
9,700.00	7,123.02	3,680.00	3,677.63	64.80	145.20	-24.03	2,847.80	3,572.14	4,037.41	3,942.78	94.63	42.665		
9,800.00	7,123.33	3,680.00	3,677.63	67.19	145.20	-24.03	2,847.80	3,572.14	4,003.18	3,907.38	95.80	41.787		
9,900.00	7,123.65	3,680.00	3,677.63	69.59	145.20	-24.03	2,847.80	3,572.14	3,971.17	3,874.19	96.97	40.951		
10,000.00	7,123.96	3,680.00	3,677.63	71.99	145.20	-24.03	2,847.80	3,572.14	3,941.43	3,843.28	98.15	40.157		
10,100.00	7,124.27	3,680.00	3,677.63	74.40	145.20	-24.03	2,847.80	3,572.14	3,914.03	3,814.70	99.33	39.405		
10,200.00	7,124.58	3,680.00	3,677.63	76.82	145.20	-24.03	2,847.80	3,572.14	3,889.01	3,788.49	100.51	38.692		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 229J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)						
10,300.00	7,124.89	3,680.00	3,677.63	79.25	145.20	-24.03	2,847.80	3,572.14	3,866.41	3,764.71	101.70	38.019		
10,400.00	7,125.20	3,680.00	3,677.63	81.68	145.20	-24.03	2,847.80	3,572.14	3,846.27	3,743.39	102.89	37.384		
10,500.00	7,125.51	3,680.00	3,677.63	84.12	145.20	-24.03	2,847.80	3,572.14	3,828.65	3,724.57	104.08	36.787		
10,600.00	7,125.82	3,680.00	3,677.63	86.56	145.20	-24.03	2,847.80	3,572.14	3,813.57	3,708.30	105.27	36.227		
10,700.00	7,126.13	3,680.00	3,677.63	89.01	145.20	-24.03	2,847.80	3,572.14	3,801.05	3,694.59	106.46	35.703		
10,800.00	7,126.44	3,680.00	3,677.63	91.46	145.20	-24.03	2,847.80	3,572.14	3,791.14	3,683.48	107.66	35.214		
10,900.00	7,126.75	3,680.00	3,677.63	93.91	145.20	-24.03	2,847.80	3,572.14	3,783.84	3,674.99	108.86	34.759		
11,000.00	7,127.06	3,680.00	3,677.63	96.37	145.20	-24.03	2,847.80	3,572.14	3,779.18	3,669.12	110.06	34.338		
11,100.00	7,127.37	3,680.00	3,677.63	98.83	145.20	-24.03	2,847.80	3,572.14	3,777.16	3,665.90	111.26	33.949		
11,126.35	7,127.45	3,680.00	3,677.63	99.48	145.20	-24.03	2,847.80	3,572.14	3,777.07	3,665.49	111.58	33.852 CC		
11,200.00	7,127.68	3,680.00	3,677.63	101.30	145.20	-24.03	2,847.80	3,572.14	3,777.79	3,665.32	112.46	33.591 ES		
11,300.00	7,127.99	3,680.00	3,677.63	103.77	145.20	-24.03	2,847.80	3,572.14	3,781.06	3,667.39	113.67	33.264		
11,400.00	7,128.30	3,680.00	3,677.63	106.24	145.20	-24.03	2,847.80	3,572.14	3,786.97	3,672.10	114.87	32.967		
11,500.00	7,128.61	3,680.00	3,677.63	108.71	145.20	-24.03	2,847.80	3,572.14	3,795.50	3,679.43	116.08	32.698		
11,600.00	7,128.92	3,680.00	3,677.63	111.19	145.20	-24.03	2,847.80	3,572.14	3,806.65	3,689.36	117.29	32.456		
11,700.00	7,129.23	3,680.00	3,677.63	113.66	145.20	-24.03	2,847.80	3,572.14	3,820.38	3,701.89	118.49	32.241		
11,800.00	7,129.54	3,680.00	3,677.63	116.14	145.20	-24.03	2,847.80	3,572.14	3,836.67	3,716.97	119.70	32.051		
11,900.00	7,129.85	3,680.00	3,677.63	118.62	145.20	-24.03	2,847.80	3,572.14	3,855.49	3,734.57	120.91	31.886		
12,000.00	7,130.16	3,680.00	3,677.63	121.11	145.20	-24.03	2,847.80	3,572.14	3,876.79	3,754.67	122.13	31.744		
12,100.00	7,130.47	3,680.00	3,677.63	123.59	145.20	-24.03	2,847.80	3,572.14	3,900.54	3,777.21	123.34	31.625		
12,200.00	7,130.78	3,680.00	3,677.63	126.08	145.20	-24.03	2,847.80	3,572.14	3,926.70	3,802.15	124.55	31.527		
12,300.00	7,131.09	3,680.00	3,677.63	128.57	145.20	-24.03	2,847.80	3,572.14	3,955.21	3,829.45	125.76	31.449		
12,400.00	7,131.40	3,680.00	3,677.63	131.06	145.20	-24.03	2,847.80	3,572.14	3,986.03	3,859.05	126.98	31.391		
12,500.00	7,131.71	3,680.00	3,677.63	133.55	145.20	-24.03	2,847.80	3,572.14	4,019.10	3,890.91	128.19	31.352		
12,600.00	7,132.02	3,680.00	3,677.63	136.04	145.20	-24.03	2,847.80	3,572.14	4,054.37	3,924.96	129.41	31.330		
12,700.00	7,132.33	3,680.00	3,677.63	138.54	145.20	-24.03	2,847.80	3,572.14	4,091.78	3,961.15	130.62	31.325		
12,800.00	7,132.64	3,680.00	3,677.63	141.03	145.20	-24.03	2,847.80	3,572.14	4,131.27	3,999.42	131.84	31.335		
12,900.00	7,132.95	3,680.00	3,677.63	143.53	145.20	-24.03	2,847.80	3,572.14	4,172.78	4,039.72	133.06	31.361		
13,000.00	7,133.26	3,680.00	3,677.63	146.02	145.20	-24.03	2,847.80	3,572.14	4,216.26	4,081.98	134.28	31.400		
13,100.00	7,133.57	3,680.00	3,677.63	148.52	145.20	-24.03	2,847.80	3,572.14	4,261.64	4,126.14	135.49	31.453		
13,200.00	7,133.88	3,680.00	3,677.63	151.02	145.20	-24.03	2,847.80	3,572.14	4,308.86	4,172.15	136.71	31.518		
13,300.00	7,134.19	3,680.00	3,677.63	153.52	145.20	-24.03	2,847.80	3,572.14	4,357.87	4,219.94	137.93	31.595		
13,400.00	7,134.50	3,680.00	3,677.63	156.02	145.20	-24.03	2,847.80	3,572.14	4,408.60	4,269.45	139.15	31.682		
13,500.00	7,134.81	3,680.00	3,677.63	158.52	145.20	-24.03	2,847.80	3,572.14	4,460.99	4,320.62	140.37	31.780		
13,600.00	7,135.12	3,680.00	3,677.63	161.03	145.20	-24.03	2,847.80	3,572.14	4,515.00	4,373.41	141.59	31.888		
13,700.00	7,135.43	3,680.00	3,677.63	163.53	145.20	-24.03	2,847.80	3,572.14	4,570.55	4,427.74	142.81	32.005		
13,800.00	7,135.74	3,680.00	3,677.63	166.03	145.20	-24.03	2,847.80	3,572.14	4,627.60	4,483.57	144.03	32.129		
13,900.00	7,136.05	3,680.00	3,677.63	168.54	145.20	-24.03	2,847.80	3,572.14	4,686.08	4,540.83	145.25	32.262		
14,000.00	7,136.36	3,680.00	3,677.63	171.04	145.20	-24.03	2,847.80	3,572.14	4,745.96	4,599.49	146.47	32.402		
14,100.00	7,136.67	3,680.00	3,677.63	173.55	145.20	-24.03	2,847.80	3,572.14	4,807.17	4,659.47	147.69	32.548		
14,200.00	7,136.98	3,680.00	3,677.63	176.05	145.20	-24.03	2,847.80	3,572.14	4,869.66	4,720.74	148.92	32.701		
14,300.00	7,137.29	3,680.00	3,677.63	178.56	145.20	-24.03	2,847.80	3,572.14	4,933.39	4,783.25	150.14	32.859		
14,400.00	7,137.60	3,680.00	3,677.63	181.07	145.20	-24.03	2,847.80	3,572.14	4,998.30	4,846.94	151.36	33.023		
14,500.00	7,137.91	3,680.00	3,677.63	183.58	145.20	-24.03	2,847.80	3,572.14	5,064.36	4,911.78	152.58	33.191		
14,600.00	7,138.22	3,680.00	3,677.63	186.09	145.20	-24.03	2,847.80	3,572.14	5,131.52	4,977.71	153.81	33.364		
14,700.00	7,138.53	3,680.00	3,677.63	188.59	145.20	-24.03	2,847.80	3,572.14	5,199.73	5,044.71	155.03	33.540		
14,800.00	7,138.84	3,680.00	3,677.63	191.10	145.20	-24.03	2,847.80	3,572.14	5,268.96	5,112.71	156.25	33.721		
14,900.00	7,139.15	3,680.00	3,677.63	193.61	145.20	-24.03	2,847.80	3,572.14	5,339.17	5,181.69	157.48	33.905		
15,000.00	7,139.46	3,680.00	3,677.63	196.13	145.20	-24.03	2,847.80	3,572.14	5,410.31	5,251.61	158.70	34.092		
15,100.00	7,139.77	3,680.00	3,677.63	198.64	145.20	-24.03	2,847.80	3,572.14	5,482.35	5,322.43	159.92	34.281		
15,200.00	7,140.08	3,680.00	3,677.63	201.15	145.20	-24.03	2,847.80	3,572.14	5,555.26	5,394.11	161.15	34.473		
15,300.00	7,140.39	3,680.00	3,677.63	203.66	145.20	-24.03	2,847.80	3,572.14	5,629.00	5,466.63	162.37	34.667		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 229J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
15,400.00	7,140.70	3,680.00	3,677.63	206.17	145.20	-24.03	2,847.80	3,572.14	5,703.54	5,539.94	163.60	34.863		
15,500.00	7,141.01	3,680.00	3,677.63	208.68	145.20	-24.03	2,847.80	3,572.14	5,778.85	5,614.03	164.82	35.061		
15,600.00	7,141.32	3,680.00	3,677.63	211.20	145.20	-24.03	2,847.80	3,572.14	5,854.90	5,688.85	166.05	35.261		
15,700.00	7,141.63	3,680.00	3,677.63	213.71	145.20	-24.03	2,847.80	3,572.14	5,931.66	5,764.38	167.27	35.461		
15,800.00	7,141.94	3,680.00	3,677.63	216.22	145.20	-24.03	2,847.80	3,572.14	6,009.10	5,840.60	168.50	35.663		
15,900.00	7,142.25	3,680.00	3,677.63	218.74	145.20	-24.03	2,847.80	3,572.14	6,087.20	5,917.48	169.72	35.866		
16,000.00	7,142.56	3,680.00	3,677.63	221.25	145.20	-24.03	2,847.80	3,572.14	6,165.93	5,994.99	170.95	36.069		
16,100.00	7,142.87	3,680.00	3,677.63	223.77	145.20	-24.03	2,847.80	3,572.14	6,245.28	6,073.10	172.17	36.273		
16,200.00	7,143.18	3,680.00	3,677.63	226.28	145.20	-24.03	2,847.80	3,572.14	6,325.20	6,151.80	173.40	36.478		
16,300.00	7,143.49	3,680.00	3,677.63	228.80	145.20	-24.03	2,847.80	3,572.14	6,405.69	6,231.07	174.62	36.683		
16,400.00	7,143.80	3,680.00	3,677.63	231.31	145.20	-24.03	2,847.80	3,572.14	6,486.73	6,310.88	175.85	36.888		
16,500.00	7,144.11	3,680.00	3,677.63	233.83	145.20	-24.03	2,847.80	3,572.14	6,568.29	6,391.21	177.08	37.093		
16,600.00	7,144.42	3,680.00	3,677.63	236.34	145.20	-24.03	2,847.80	3,572.14	6,650.35	6,472.04	178.30	37.298		
16,700.00	7,144.73	3,680.00	3,677.63	238.86	145.20	-24.03	2,847.80	3,572.14	6,732.89	6,553.36	179.53	37.503		
16,800.00	7,145.05	3,680.00	3,677.63	241.37	145.20	-24.03	2,847.80	3,572.14	6,815.91	6,635.15	180.76	37.708		
16,900.00	7,145.36	3,680.00	3,677.63	243.89	145.20	-24.03	2,847.80	3,572.14	6,899.37	6,717.39	181.98	37.912		
17,000.00	7,145.67	3,680.00	3,677.63	246.41	145.20	-24.03	2,847.80	3,572.14	6,983.27	6,800.06	183.21	38.116		
17,100.00	7,145.98	3,680.00	3,677.63	248.93	145.20	-24.03	2,847.80	3,572.14	7,067.59	6,883.15	184.44	38.320		
17,200.00	7,146.29	3,680.00	3,677.63	251.44	145.20	-24.03	2,847.80	3,572.14	7,152.31	6,966.64	185.66	38.523		
17,300.00	7,146.60	3,680.00	3,677.63	253.96	145.20	-24.03	2,847.80	3,572.14	7,237.42	7,050.53	186.89	38.726		
17,400.00	7,146.91	3,680.00	3,677.63	256.48	145.20	-24.03	2,847.80	3,572.14	7,322.91	7,134.79	188.12	38.927		
17,430.36	7,147.00	3,680.00	3,677.63	257.24	145.20	-24.03	2,847.80	3,572.14	7,348.93	7,160.44	188.49	38.989		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230 - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	1.88	0.00	0.00	82.84	447.86	3,566.69	3,594.70						
100.00	100.00	98.12	100.00	0.08	1.96	82.84	447.86	3,566.69	3,594.70	3,592.65	2.05	1,756.346	CC, ES		
200.00	200.00	100.00	101.88	0.31	2.00	82.84	447.86	3,566.69	3,596.04	3,593.73	2.31	1,557.364			
300.00	300.00	100.00	101.88	0.53	2.00	82.84	447.86	3,566.69	3,600.15	3,597.62	2.53	1,420.841			
400.00	400.00	100.00	101.88	0.76	2.00	82.84	447.86	3,566.69	3,607.04	3,604.28	2.76	1,307.568			
500.00	500.00	100.00	101.88	0.98	2.00	82.84	447.86	3,566.69	3,616.68	3,613.69	2.98	1,212.287			
600.00	600.00	100.00	101.88	1.21	2.00	82.84	447.86	3,566.69	3,629.05	3,625.84	3.21	1,131.207			
700.00	700.00	100.00	101.88	1.43	2.00	82.84	447.86	3,566.69	3,644.12	3,640.69	3.43	1,061.533			
800.00	800.00	100.00	101.88	1.66	2.00	82.84	447.86	3,566.69	3,661.86	3,658.20	3.66	1,001.151			
900.00	900.00	100.00	101.88	1.88	2.00	82.84	447.86	3,566.69	3,682.23	3,678.35	3.88	948.439			
1,000.00	1,000.00	100.00	101.88	2.11	2.00	82.84	447.86	3,566.69	3,705.20	3,701.09	4.11	902.126			
1,100.00	1,099.98	100.00	101.88	2.33	2.00	105.94	447.86	3,566.69	3,731.17	3,726.84	4.33	861.681			
1,200.00	1,199.84	100.00	101.88	2.56	2.00	105.35	447.86	3,566.69	3,760.54	3,755.98	4.55	825.979			
1,300.00	1,299.45	100.00	101.88	2.79	2.00	104.68	447.86	3,566.69	3,793.18	3,788.40	4.78	793.222			
1,400.00	1,398.70	100.00	101.88	3.03	2.00	103.94	447.86	3,566.69	3,828.99	3,823.97	5.03	761.929			
1,500.00	1,497.47	100.00	101.88	3.30	2.00	103.12	447.86	3,566.69	3,867.83	3,862.53	5.29	730.861			
1,600.00	1,595.62	100.00	101.88	3.61	2.00	102.23	447.86	3,566.69	3,909.55	3,903.96	5.59	699.141			
1,700.00	1,693.06	100.00	101.88	3.95	2.00	101.25	447.86	3,566.69	3,954.02	3,948.09	5.93	666.319			
1,800.00	1,789.64	100.00	101.88	4.35	2.00	100.20	447.86	3,566.69	4,001.10	3,994.77	6.33	632.372			
1,900.00	1,885.30	100.00	101.88	4.80	2.00	99.34	447.86	3,566.69	4,050.62	4,043.84	6.78	597.782			
2,000.00	1,980.64	100.00	101.88	5.29	2.00	99.34	447.86	3,566.69	4,102.13	4,094.87	7.26	565.164			
2,100.00	2,075.99	100.00	101.88	5.80	2.00	99.34	447.86	3,566.69	4,155.41	4,147.65	7.76	535.394			
2,200.00	2,171.34	100.00	101.88	6.33	2.00	99.34	447.86	3,566.69	4,210.39	4,202.11	8.28	508.479			
2,300.00	2,266.68	100.00	101.88	6.87	2.00	99.34	447.86	3,566.69	4,267.01	4,258.19	8.81	484.251			
2,400.00	2,262.03	100.00	101.88	7.41	2.00	99.34	447.86	3,566.69	4,325.19	4,315.84	9.35	462.471			
2,500.00	2,457.38	100.00	101.88	7.97	2.00	99.34	447.86	3,566.69	4,384.89	4,374.99	9.90	442.884			
2,600.00	2,552.72	100.00	101.88	8.53	2.00	99.34	447.86	3,566.69	4,446.03	4,435.58	10.46	425.242			
2,700.00	2,648.07	100.00	101.88	9.10	2.00	99.34	447.86	3,566.69	4,508.56	4,497.55	11.01	409.317			
2,800.00	2,743.42	100.00	101.88	9.67	2.00	99.34	447.86	3,566.69	4,572.43	4,560.85	11.58	394.905			
2,900.00	2,838.77	100.00	101.88	10.24	2.00	99.34	447.86	3,566.69	4,637.57	4,625.42	12.15	381.829			
3,000.00	2,934.11	100.00	101.88	10.82	2.00	99.34	447.86	3,566.69	4,703.94	4,691.22	12.72	369.932			
3,100.00	3,029.46	100.00	101.88	11.40	2.00	99.34	447.86	3,566.69	4,771.47	4,758.19	13.29	359.077			
3,200.00	3,124.81	100.00	101.88	11.98	2.00	99.34	447.86	3,566.69	4,840.14	4,826.27	13.86	349.148			
3,300.00	3,220.15	100.00	101.88	12.56	2.00	99.34	447.86	3,566.69	4,909.87	4,895.44	14.44	340.040			
3,400.00	3,315.50	100.00	101.88	13.14	2.00	99.34	447.86	3,566.69	4,980.64	4,965.63	15.02	331.666			
3,500.00	3,410.85	100.00	101.88	13.73	2.00	99.34	447.86	3,566.69	5,052.40	5,036.81	15.60	323.947			
3,600.00	3,506.19	100.00	101.88	14.32	2.00	99.34	447.86	3,566.69	5,125.11	5,108.93	16.18	316.816			
3,700.00	3,601.54	100.00	101.88	14.91	2.00	99.34	447.86	3,566.69	5,198.72	5,181.96	16.76	310.214			
3,800.00	3,696.89	100.00	101.88	15.50	2.00	99.34	447.86	3,566.69	5,273.20	5,255.86	17.34	304.089			
3,900.00	3,792.24	100.00	101.88	16.09	2.00	99.34	447.86	3,566.69	5,348.51	5,330.59	17.92	298.394			
4,000.00	3,887.58	100.00	101.88	16.68	2.00	99.34	447.86	3,566.69	5,424.62	5,406.12	18.51	293.089			
4,100.00	3,982.93	100.00	101.88	17.27	2.00	99.34	447.86	3,566.69	5,501.50	5,482.41	19.09	288.139			
4,200.00	4,078.28	100.00	101.88	17.86	2.00	99.34	447.86	3,566.69	5,579.11	5,559.43	19.68	283.511			
4,300.00	4,173.62	100.00	101.88	18.45	2.00	99.34	447.86	3,566.69	5,657.42	5,637.16	20.26	279.178			
4,400.00	4,268.97	100.00	101.88	19.05	2.00	99.34	447.86	3,566.69	5,736.41	5,715.56	20.85	275.115			
4,500.00	4,364.32	100.00	101.88	19.64	2.00	99.34	447.86	3,566.69	5,816.04	5,794.60	21.44	271.298			
4,600.00	4,459.67	100.00	101.88	20.23	2.00	99.34	447.86	3,566.69	5,896.29	5,874.27	22.03	267.708			
4,700.00	4,555.01	100.00	101.88	20.83	2.00	99.34	447.86	3,566.69	5,977.14	5,954.53	22.61	264.326			
4,800.00	4,650.36	100.00	101.88	21.42	2.00	99.34	447.86	3,566.69	6,058.56	6,035.36	23.20	261.136			
4,900.00	4,745.71	100.00	101.88	22.02	2.00	99.34	447.86	3,566.69	6,140.53	6,116.74	23.79	258.124			
5,000.00	4,841.05	100.00	101.88	22.61	2.00	99.34	447.86	3,566.69	6,223.03	6,198.65	24.38	255.275			
5,100.00	4,936.40	100.00	101.88	23.21	2.00	99.34	447.86	3,566.69	6,306.03	6,281.06	24.97	252.579			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,031.75	100.00	101.88	23.80	2.00	99.34	447.86	3,566.69	6,389.52	6,363.97	25.56	250.023	
5,300.00	5,127.09	100.00	101.88	24.40	2.00	99.34	447.86	3,566.69	6,473.48	6,447.33	26.15	247.598	
5,400.00	5,222.44	100.00	101.88	25.00	2.00	99.34	447.86	3,566.69	6,557.89	6,531.15	26.73	245.295	
5,500.00	5,317.79	100.00	101.88	25.59	2.00	99.34	447.86	3,566.69	6,642.73	6,615.40	27.32	243.106	
5,600.00	5,413.14	100.00	101.88	26.19	2.00	99.34	447.86	3,566.69	6,727.99	6,700.07	27.91	241.022	
5,700.00	5,508.48	100.00	101.88	26.78	2.00	99.39	447.86	3,566.69	6,813.64	6,785.14	28.50	239.066	
5,800.00	5,604.35	100.00	101.88	27.24	2.00	102.68	447.86	3,566.69	6,899.52	6,870.78	28.74	240.053	
5,900.00	5,701.15	100.00	101.88	27.65	2.00	105.93	447.86	3,566.69	6,985.39	6,956.51	28.88	241.855	
6,000.00	5,798.77	100.00	101.88	28.02	2.00	109.10	447.86	3,566.69	7,071.14	7,042.21	28.93	244.443	
6,100.00	5,897.08	100.00	101.88	28.35	2.00	112.19	447.86	3,566.69	7,156.68	7,127.80	28.88	247.785	
6,200.00	5,995.98	100.00	101.88	28.63	2.00	115.18	447.86	3,566.69	7,241.91	7,213.16	28.76	251.848	
6,300.00	6,095.33	100.00	101.88	28.87	2.00	118.04	447.86	3,566.69	7,326.75	7,298.19	28.55	256.595	
6,400.00	6,195.01	100.00	101.88	29.06	2.00	120.78	447.86	3,566.69	7,411.10	7,382.81	28.29	261.993	
6,500.00	6,294.91	100.00	101.88	29.20	2.00	123.38	447.86	3,566.69	7,494.87	7,466.91	27.96	268.012	
6,600.00	6,394.89	100.00	101.88	29.30	2.00	11.23	447.86	3,566.69	7,577.80	7,550.05	27.75	273.082	
6,700.00	6,494.28	100.00	101.88	29.34	2.00	9.48	447.86	3,566.69	7,654.97	7,627.40	27.58	277.600	
6,800.00	6,591.26	100.00	101.88	29.31	2.00	8.32	447.86	3,566.69	7,723.36	7,696.60	26.76	288.662	
6,900.00	6,683.95	100.00	101.88	29.23	2.00	7.52	447.86	3,566.69	7,781.86	7,756.52	25.35	307.009	
7,000.00	6,770.55	100.00	101.88	29.09	2.00	6.97	447.86	3,566.69	7,829.59	7,806.18	23.41	334.488	
7,100.00	6,849.36	100.00	101.88	28.92	2.00	6.60	447.86	3,566.69	7,865.81	7,844.81	21.00	374.519	
7,200.00	6,918.86	100.00	101.88	28.73	2.00	6.38	447.86	3,566.69	7,889.98	7,871.77	18.21	433.224	
7,300.00	6,977.70	100.00	101.88	28.54	2.00	6.27	447.86	3,566.69	7,901.75	7,886.60	15.14	521.777	
7,400.00	7,027.98	100.00	101.88	28.35	2.00	6.26	447.86	3,566.69	7,904.60	7,890.56	14.04	562.943	
7,500.00	7,070.01	100.00	101.88	28.19	2.00	6.31	447.86	3,566.69	7,899.50	7,888.56	10.94	722.197	
7,600.00	7,099.01	100.00	101.88	28.06	2.00	6.47	447.86	3,566.69	7,881.88	7,873.56	8.32	947.482	
7,700.00	7,114.42	100.00	101.88	27.97	2.00	6.76	447.86	3,566.69	7,851.99	7,844.92	7.07	1,111.203	
7,800.00	7,117.13	100.00	101.88	28.00	2.00	7.00	447.86	3,566.69	7,811.35	7,803.68	7.67	1,018.736	
7,900.00	7,117.44	100.00	101.88	28.26	2.00	7.00	447.86	3,566.69	7,769.58	7,761.09	8.49	914.864	
8,000.00	7,117.75	100.00	101.88	28.94	2.00	7.00	447.86	3,566.69	7,728.88	7,719.56	9.32	828.966	
8,100.00	7,118.06	100.00	101.88	30.16	2.00	7.00	447.86	3,566.69	7,689.27	7,679.11	10.16	756.898	
8,200.00	7,118.37	100.00	101.88	31.76	2.00	7.00	447.86	3,566.69	7,650.76	7,639.76	11.00	695.662	
8,300.00	7,118.68	100.00	101.88	33.58	2.00	7.00	447.86	3,566.69	7,613.36	7,601.52	11.84	643.053	
8,400.00	7,118.99	100.00	101.88	35.53	2.00	7.00	447.86	3,566.69	7,577.10	7,564.42	12.68	597.414	
8,500.00	7,119.30	100.00	101.88	37.56	2.00	7.00	447.86	3,566.69	7,542.00	7,528.47	13.53	557.482	
8,600.00	7,119.61	100.00	101.88	39.66	2.00	7.00	447.86	3,566.69	7,508.06	7,493.68	14.38	522.275	
8,700.00	7,119.92	100.00	101.88	41.80	2.00	7.00	447.86	3,566.69	7,475.30	7,460.08	15.22	491.026	
8,800.00	7,120.23	100.00	101.88	43.99	2.00	7.00	447.86	3,566.69	7,443.75	7,427.67	16.07	463.120	
8,900.00	7,120.54	100.00	101.88	46.22	2.00	7.00	447.86	3,566.69	7,413.41	7,396.48	16.92	438.064	
9,000.00	7,120.85	100.00	101.88	48.47	2.00	7.00	447.86	3,566.69	7,384.29	7,366.52	17.77	415.458	
9,100.00	7,121.16	100.00	101.88	50.75	2.00	7.00	447.86	3,566.69	7,356.43	7,337.80	18.63	394.970	
9,200.00	7,121.47	100.00	101.88	53.05	2.00	7.00	447.86	3,566.69	7,329.82	7,310.34	19.48	376.327	
9,300.00	7,121.78	100.00	101.88	55.37	2.00	7.00	447.86	3,566.69	7,304.48	7,284.15	20.33	359.301	
9,400.00	7,122.09	100.00	101.88	57.71	2.00	7.00	447.86	3,566.69	7,280.43	7,259.25	21.18	343.699	
9,500.00	7,122.40	100.00	101.88	60.06	2.00	7.00	447.86	3,566.69	7,257.68	7,235.64	22.04	329.358	
9,600.00	7,122.71	100.00	101.88	62.43	2.00	7.00	447.86	3,566.69	7,236.23	7,213.35	22.89	316.139	
9,700.00	7,123.02	100.00	101.88	64.80	2.00	7.00	447.86	3,566.69	7,216.11	7,192.37	23.74	303.923	
9,800.00	7,123.33	100.00	101.88	67.19	2.00	7.00	447.86	3,566.69	7,197.33	7,172.73	24.60	292.605	
9,900.00	7,123.65	100.00	101.88	69.59	2.00	7.00	447.86	3,566.69	7,179.88	7,154.43	25.45	282.098	
10,000.00	7,123.96	100.00	101.88	71.99	2.00	7.00	447.86	3,566.69	7,163.80	7,137.49	26.31	272.322	
10,100.00	7,124.27	100.00	101.88	74.40	2.00	7.00	447.86	3,566.69	7,149.07	7,121.91	27.16	263.210	
10,200.00	7,124.58	100.00	101.88	76.82	2.00	7.00	447.86	3,566.69	7,135.71	7,107.70	28.02	254.701	
10,300.00	7,124.89	100.00	101.88	79.25	2.00	7.00	447.86	3,566.69	7,123.74	7,094.86	28.87	246.742	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	100.00	101.88	81.68	2.00	7.00	447.86	3,566.69	7,113.14	7,083.42	29.73	239.287		
10,500.00	7,125.51	100.00	101.88	84.12	2.00	7.00	447.86	3,566.69	7,103.95	7,073.36	30.58	232.293		
10,600.00	7,125.82	100.00	101.88	86.56	2.00	7.00	447.86	3,566.69	7,096.14	7,064.71	31.44	225.724		
10,700.00	7,126.13	100.00	101.88	89.01	2.00	7.00	447.86	3,566.69	7,089.74	7,057.45	32.29	219.545		
10,800.00	7,126.44	100.00	101.88	91.46	2.00	7.00	447.86	3,566.69	7,084.75	7,051.60	33.15	213.727		
10,900.00	7,126.75	100.00	101.88	93.91	2.00	7.00	447.86	3,566.69	7,081.17	7,047.16	34.00	208.242		
11,000.00	7,127.06	100.00	101.88	96.37	2.00	7.00	447.86	3,566.69	7,078.99	7,044.13	34.86	203.067		
11,100.00	7,127.37	100.00	101.88	98.83	2.00	7.00	447.86	3,566.69	7,078.23	7,042.51	35.72	198.179		
11,103.92	7,127.38	100.00	101.88	98.93	2.00	7.00	447.86	3,566.69	7,078.23	7,042.41	35.82	197.625		
11,200.00	7,127.68	100.00	101.88	101.30	2.00	7.00	447.86	3,566.69	7,078.88	7,042.31	36.57	193.558		
11,300.00	7,127.99	100.00	101.88	103.77	2.00	7.00	447.86	3,566.69	7,080.95	7,043.52	37.43	189.185		
11,400.00	7,128.30	100.00	101.88	106.24	2.00	7.00	447.86	3,566.69	7,084.42	7,046.13	38.28	185.045		
11,500.00	7,128.61	100.00	101.88	108.71	2.00	7.00	447.86	3,566.69	7,089.30	7,050.16	39.14	181.122		
11,600.00	7,128.92	100.00	101.88	111.19	2.00	7.00	447.86	3,566.69	7,095.59	7,055.60	40.00	177.401		
11,700.00	7,129.23	100.00	101.88	113.66	2.00	7.00	447.86	3,566.69	7,103.28	7,062.43	40.85	173.871		
11,800.00	7,129.54	100.00	101.88	116.14	2.00	7.00	447.86	3,566.69	7,112.37	7,070.66	41.71	170.519		
11,900.00	7,129.85	100.00	101.88	118.62	2.00	7.00	447.86	3,566.69	7,122.86	7,080.29	42.57	167.334		
12,000.00	7,130.16	100.00	101.88	121.11	2.00	7.00	447.86	3,566.69	7,134.73	7,091.30	43.42	164.307		
12,100.00	7,130.47	100.00	101.88	123.59	2.00	7.00	447.86	3,566.69	7,147.97	7,103.69	44.28	161.427		
12,200.00	7,130.78	100.00	101.88	126.08	2.00	7.00	447.86	3,566.69	7,162.59	7,117.46	45.14	158.688		
12,300.00	7,131.09	100.00	101.88	128.57	2.00	7.00	447.86	3,566.69	7,178.58	7,132.58	45.99	156.079		
12,400.00	7,131.40	100.00	101.88	131.06	2.00	7.00	447.86	3,566.69	7,195.91	7,149.06	46.85	153.595		
12,500.00	7,131.71	100.00	101.88	133.55	2.00	7.00	447.86	3,566.69	7,214.60	7,166.89	47.71	151.229		
12,600.00	7,132.02	100.00	101.88	136.04	2.00	7.00	447.86	3,566.69	7,234.61	7,186.05	48.56	148.973		
12,700.00	7,132.33	100.00	101.88	138.54	2.00	7.00	447.86	3,566.69	7,255.95	7,206.53	49.42	146.822		
12,800.00	7,132.64	100.00	101.88	141.03	2.00	7.00	447.86	3,566.69	7,278.60	7,228.32	50.28	144.770		
12,900.00	7,132.95	100.00	101.88	143.53	2.00	7.00	447.86	3,566.69	7,302.55	7,251.42	51.13	142.813		
13,000.00	7,133.26	100.00	101.88	146.02	2.00	7.00	447.86	3,566.69	7,327.79	7,275.80	51.99	140.945		
13,100.00	7,133.57	100.00	101.88	148.52	2.00	7.00	447.86	3,566.69	7,354.30	7,301.45	52.85	139.161		
13,200.00	7,133.88	100.00	101.88	151.02	2.00	7.00	447.86	3,566.69	7,382.07	7,328.36	53.70	137.457		
13,300.00	7,134.19	100.00	101.88	153.52	2.00	7.00	447.86	3,566.69	7,411.08	7,356.52	54.56	135.830		
13,400.00	7,134.50	100.00	101.88	156.02	2.00	7.00	447.86	3,566.69	7,441.33	7,385.91	55.42	134.276		
13,500.00	7,134.81	100.00	101.88	158.52	2.00	7.00	447.86	3,566.69	7,472.79	7,416.51	56.28	132.790		
13,600.00	7,135.12	100.00	101.88	161.03	2.00	7.00	447.86	3,566.69	7,505.45	7,448.32	57.13	131.370		
13,700.00	7,135.43	100.00	101.88	163.53	2.00	7.00	447.86	3,566.69	7,539.30	7,481.31	57.99	130.012		
13,800.00	7,135.74	100.00	101.88	166.03	2.00	7.00	447.86	3,566.69	7,574.31	7,515.47	58.85	128.714		
13,900.00	7,136.05	100.00	101.88	168.54	2.00	7.00	447.86	3,566.69	7,610.48	7,550.78	59.70	127.472		
14,000.00	7,136.36	100.00	101.88	171.04	2.00	7.00	447.86	3,566.69	7,647.79	7,587.23	60.56	126.284		
14,100.00	7,136.67	100.00	101.88	173.55	2.00	7.00	447.86	3,566.69	7,686.21	7,624.79	61.42	125.147		
14,200.00	7,136.98	100.00	101.88	176.05	2.00	7.00	447.86	3,566.69	7,725.74	7,663.47	62.27	124.059		
14,300.00	7,137.29	100.00	101.88	178.56	2.00	7.00	447.86	3,566.69	7,766.36	7,703.22	63.13	123.018		
14,400.00	7,137.60	100.00	101.88	181.07	2.00	7.00	447.86	3,566.69	7,808.04	7,744.05	63.99	122.022		
14,500.00	7,137.91	100.00	101.88	183.58	2.00	7.00	447.86	3,566.69	7,850.78	7,785.93	64.85	121.068		
14,600.00	7,138.22	100.00	101.88	186.09	2.00	7.00	447.86	3,566.69	7,894.55	7,828.85	65.70	120.155		
14,700.00	7,138.53	100.00	101.88	188.59	2.00	7.00	447.86	3,566.69	7,939.34	7,872.78	66.56	119.280		
14,800.00	7,138.84	100.00	101.88	191.10	2.00	7.00	447.86	3,566.69	7,985.13	7,917.72	67.42	118.443		
14,900.00	7,139.15	100.00	101.88	193.61	2.00	7.00	447.86	3,566.69	8,031.91	7,963.64	68.27	117.641		
15,000.00	7,139.46	100.00	101.88	196.13	2.00	7.00	447.86	3,566.69	8,079.65	8,010.52	69.13	116.873		
15,100.00	7,139.77	100.00	101.88	198.64	2.00	7.00	447.86	3,566.69	8,128.35	8,058.36	69.99	116.137		
15,200.00	7,140.08	100.00	101.88	201.15	2.00	7.00	447.86	3,566.69	8,177.97	8,107.13	70.85	115.433		
15,300.00	7,140.39	100.00	101.88	203.66	2.00	7.00	447.86	3,566.69	8,228.52	8,156.81	71.70	114.757		
15,400.00	7,140.70	100.00	101.88	206.17	2.00	7.00	447.86	3,566.69	8,279.96	8,207.40	72.56	114.111		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
15,500.00	7,141.01	100.00	101.88	208.68	2.00	7.00	447.86	3,566.69	8,332.28	8,258.86	73.42	113.491		
15,600.00	7,141.32	100.00	101.88	211.20	2.00	7.00	447.86	3,566.69	8,385.47	8,311.20	74.28	112.897		
15,700.00	7,141.63	100.00	101.88	213.71	2.00	7.00	447.86	3,566.69	8,439.51	8,364.38	75.13	112.328		
15,800.00	7,141.94	100.00	101.88	216.22	2.00	7.00	447.86	3,566.69	8,494.38	8,418.39	75.99	111.783		
15,900.00	7,142.25	100.00	101.88	218.74	2.00	7.00	447.86	3,566.69	8,550.07	8,473.23	76.85	111.261		
16,000.00	7,142.56	100.00	101.88	221.25	2.00	7.00	447.86	3,566.69	8,606.57	8,528.86	77.70	110.760		
16,100.00	7,142.87	100.00	101.88	223.77	2.00	7.00	447.86	3,566.69	8,663.84	8,585.28	78.56	110.281		
16,200.00	7,143.18	100.00	101.88	226.28	2.00	7.00	447.86	3,566.69	8,721.89	8,642.47	79.42	109.821		
16,300.00	7,143.49	100.00	101.88	228.80	2.00	7.00	447.86	3,566.69	8,780.70	8,700.42	80.28	109.381		
16,400.00	7,143.80	100.00	101.88	231.31	2.00	7.00	447.86	3,566.69	8,840.24	8,759.11	81.13	108.959		
16,500.00	7,144.11	100.00	101.88	233.83	2.00	7.00	447.86	3,566.69	8,900.51	8,818.52	81.99	108.555		
16,600.00	7,144.42	100.00	101.88	236.34	2.00	7.00	447.86	3,566.69	8,961.49	8,878.64	82.85	108.168		
16,700.00	7,144.73	100.00	101.88	238.86	2.00	7.00	447.86	3,566.69	9,023.16	8,939.46	83.71	107.796		
16,800.00	7,145.05	100.00	101.88	241.37	2.00	7.00	447.86	3,566.69	9,085.52	9,000.96	84.56	107.441		
16,900.00	7,145.36	100.00	101.88	243.89	2.00	7.00	447.86	3,566.69	9,148.55	9,063.13	85.42	107.100		
17,000.00	7,145.67	100.00	101.88	246.41	2.00	7.00	447.86	3,566.69	9,212.23	9,125.95	86.28	106.774		
17,100.00	7,145.98	100.00	101.88	248.93	2.00	7.00	447.86	3,566.69	9,276.55	9,189.41	87.13	106.462		
17,200.00	7,146.29	100.00	101.88	251.44	2.00	7.00	447.86	3,566.69	9,341.50	9,253.51	87.99	106.163		
17,300.00	7,146.60	100.00	101.88	253.96	2.00	7.00	447.86	3,566.69	9,407.06	9,318.21	88.85	105.876		
17,400.00	7,146.91	100.00	101.88	256.48	2.00	7.00	447.86	3,566.69	9,473.23	9,383.52	89.71	105.602		
17,430.36	7,147.00	100.00	101.88	257.24	2.00	7.00	447.86	3,566.69	9,493.43	9,403.46	89.97	105.521 SF		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	42.78	0.00	0.00	126.60	-2,220.46	2,990.02	3,724.58					
100.00	100.00	57.22	100.00	0.08	1.14	126.60	-2,220.46	2,990.02	3,724.33	3,723.11	1.23	3,030.937		
122.08	122.08	79.30	122.08	0.13	1.59	126.60	-2,220.46	2,990.02	3,724.33	3,722.61	1.72	2,165.366 CC		
200.00	200.00	100.00	142.78	0.31	2.00	126.60	-2,220.46	2,990.02	3,724.77	3,722.46	2.31	1,613.117 ES		
300.00	300.00	100.00	142.78	0.53	2.00	126.60	-2,220.46	2,990.02	3,727.65	3,725.12	2.53	1,471.159		
400.00	400.00	100.00	142.78	0.76	2.00	126.60	-2,220.46	2,990.02	3,733.21	3,730.45	2.76	1,353.304		
500.00	500.00	100.00	142.78	0.98	2.00	126.60	-2,220.46	2,990.02	3,741.43	3,738.44	2.98	1,254.102		
600.00	600.00	100.00	142.78	1.21	2.00	126.60	-2,220.46	2,990.02	3,752.29	3,749.09	3.21	1,169.625		
700.00	700.00	100.00	142.78	1.43	2.00	126.60	-2,220.46	2,990.02	3,765.79	3,762.35	3.43	1,096.975		
800.00	800.00	100.00	142.78	1.66	2.00	126.60	-2,220.46	2,990.02	3,781.88	3,778.22	3.66	1,033.964		
900.00	900.00	100.00	142.78	1.88	2.00	126.60	-2,220.46	2,990.02	3,800.53	3,796.65	3.88	978.909		
1,000.00	1,000.00	100.00	142.78	2.11	2.00	126.60	-2,220.46	2,990.02	3,821.71	3,817.61	4.11	930.495		
1,100.00	1,099.98	100.00	142.78	2.33	2.00	149.96	-2,220.46	2,990.02	3,846.84	3,842.51	4.33	888.436		
1,200.00	1,199.84	100.00	142.78	2.56	2.00	149.64	-2,220.46	2,990.02	3,877.27	3,872.72	4.55	852.147		
1,300.00	1,299.45	100.00	142.78	2.79	2.00	149.25	-2,220.46	2,990.02	3,912.83	3,908.06	4.77	820.325		
1,400.00	1,398.70	100.00	142.78	3.03	2.00	148.79	-2,220.46	2,990.02	3,953.35	3,948.36	4.99	791.943		
1,500.00	1,497.47	100.00	142.78	3.30	2.00	148.26	-2,220.46	2,990.02	3,998.64	3,993.42	5.22	766.039		
1,600.00	1,595.62	100.00	142.78	3.61	2.00	147.65	-2,220.46	2,990.02	4,048.46	4,043.00	5.46	741.746		
1,700.00	1,693.06	100.00	142.78	3.95	2.00	146.96	-2,220.46	2,990.02	4,102.61	4,096.90	5.71	718.293		
1,800.00	1,789.64	100.00	142.78	4.35	2.00	146.17	-2,220.46	2,990.02	4,160.84	4,154.85	5.99	695.017		
1,900.00	1,885.30	100.00	142.78	4.80	2.00	145.48	-2,220.46	2,990.02	4,222.86	4,216.57	6.29	671.071		
2,000.00	1,980.64	100.00	142.78	5.29	2.00	145.48	-2,220.46	2,990.02	4,286.98	4,280.35	6.63	646.604		
2,100.00	2,075.99	100.00	142.78	5.80	2.00	145.48	-2,220.46	2,990.02	4,352.45	4,345.47	6.98	623.546		
2,200.00	2,171.34	100.00	142.78	6.33	2.00	145.48	-2,220.46	2,990.02	4,419.22	4,411.87	7.34	602.013		
2,300.00	2,266.68	100.00	142.78	6.87	2.00	145.48	-2,220.46	2,990.02	4,487.22	4,479.51	7.71	582.020		
2,400.00	2,362.03	100.00	142.78	7.41	2.00	145.48	-2,220.46	2,990.02	4,556.40	4,548.31	8.09	563.516		
2,500.00	2,457.38	100.00	142.78	7.97	2.00	145.48	-2,220.46	2,990.02	4,626.70	4,618.24	8.47	546.420		
2,600.00	2,552.72	100.00	142.78	8.53	2.00	145.48	-2,220.46	2,990.02	4,698.09	4,689.23	8.85	530.633		
2,700.00	2,648.07	100.00	142.78	9.10	2.00	145.48	-2,220.46	2,990.02	4,770.50	4,761.26	9.24	516.054		
2,800.00	2,743.42	100.00	142.78	9.67	2.00	145.48	-2,220.46	2,990.02	4,843.89	4,834.26	9.64	502.580		
2,900.00	2,838.77	100.00	142.78	10.24	2.00	145.48	-2,220.46	2,990.02	4,918.23	4,908.19	10.03	490.116		
3,000.00	2,934.11	100.00	142.78	10.82	2.00	145.48	-2,220.46	2,990.02	4,993.45	4,983.02	10.43	478.570		
3,100.00	3,029.46	100.00	142.78	11.40	2.00	145.48	-2,220.46	2,990.02	5,069.54	5,058.70	10.84	467.862		
3,200.00	3,124.81	100.00	142.78	11.98	2.00	145.48	-2,220.46	2,990.02	5,146.44	5,135.20	11.24	457.914		
3,300.00	3,220.15	100.00	142.78	12.56	2.00	145.48	-2,220.46	2,990.02	5,224.13	5,212.48	11.64	448.659		
3,400.00	3,315.50	100.00	142.78	13.14	2.00	145.48	-2,220.46	2,990.02	5,302.56	5,290.51	12.05	440.036		
3,500.00	3,410.85	100.00	142.78	13.73	2.00	145.48	-2,220.46	2,990.02	5,381.71	5,369.25	12.46	431.987		
3,600.00	3,506.19	100.00	142.78	14.32	2.00	145.48	-2,220.46	2,990.02	5,461.54	5,448.67	12.87	424.465		
3,700.00	3,601.54	100.00	142.78	14.91	2.00	145.48	-2,220.46	2,990.02	5,542.03	5,528.75	13.28	417.423		
3,800.00	3,696.89	100.00	142.78	15.50	2.00	145.48	-2,220.46	2,990.02	5,623.14	5,609.45	13.69	410.822		
3,900.00	3,792.24	100.00	142.78	16.09	2.00	145.48	-2,220.46	2,990.02	5,704.85	5,690.75	14.10	404.624		
4,000.00	3,887.58	100.00	142.78	16.68	2.00	145.48	-2,220.46	2,990.02	5,787.14	5,772.63	14.51	398.797		
4,100.00	3,982.93	100.00	142.78	17.27	2.00	145.48	-2,220.46	2,990.02	5,869.98	5,855.05	14.92	393.311		
4,200.00	4,078.28	100.00	142.78	17.86	2.00	145.48	-2,220.46	2,990.02	5,953.34	5,938.00	15.34	388.148		
4,300.00	4,173.62	100.00	142.78	18.45	2.00	145.48	-2,220.46	2,990.02	6,037.21	6,021.46	15.75	383.259		
4,400.00	4,268.97	100.00	142.78	19.05	2.00	145.48	-2,220.46	2,990.02	6,121.56	6,105.40	16.17	378.646		
4,500.00	4,364.32	100.00	142.78	19.64	2.00	145.48	-2,220.46	2,990.02	6,206.38	6,189.80	16.58	374.282		
4,600.00	4,459.67	100.00	142.78	20.23	2.00	145.48	-2,220.46	2,990.02	6,291.65	6,274.65	17.00	370.148		
4,700.00	4,555.01	100.00	142.78	20.83	2.00	145.48	-2,220.46	2,990.02	6,377.34	6,359.93	17.41	366.227		
4,800.00	4,650.36	100.00	142.78	21.42	2.00	145.48	-2,220.46	2,990.02	6,463.44	6,445.61	17.83	362.505		
4,900.00	4,745.71	100.00	142.78	22.02	2.00	145.48	-2,220.46	2,990.02	6,549.94	6,531.70	18.25	358.969		
5,000.00	4,841.05	100.00	142.78	22.61	2.00	145.48	-2,220.46	2,990.02	6,636.82	6,618.16	18.66	355.604		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,936.40	100.00	142.78	23.21	2.00	145.48	-2,220.46	2,990.02	6,724.06	6,704.98	19.08	352.401		
5,200.00	5,031.75	100.00	142.78	23.80	2.00	145.48	-2,220.46	2,990.02	6,811.66	6,792.16	19.50	349.348		
5,300.00	5,127.09	100.00	142.78	24.40	2.00	145.48	-2,220.46	2,990.02	6,899.59	6,879.67	19.92	346.435		
5,400.00	5,222.44	100.00	142.78	25.00	2.00	145.48	-2,220.46	2,990.02	6,987.84	6,967.51	20.33	343.655		
5,500.00	5,317.79	100.00	142.78	25.59	2.00	145.48	-2,220.46	2,990.02	7,076.41	7,055.66	20.75	340.998		
5,600.00	5,413.14	100.00	142.78	26.19	2.00	145.48	-2,220.46	2,990.02	7,165.28	7,144.11	21.17	338.457		
5,700.00	5,508.48	100.00	142.78	26.78	2.00	145.52	-2,220.46	2,990.02	7,254.44	7,232.86	21.58	336.125		
5,800.00	5,604.35	100.00	142.78	27.24	2.00	147.64	-2,220.46	2,990.02	7,343.20	7,321.68	21.52	341.212		
5,900.00	5,701.15	100.00	142.78	27.65	2.00	149.54	-2,220.46	2,990.02	7,430.87	7,409.41	21.46	346.240		
6,000.00	5,798.77	100.00	142.78	28.02	2.00	151.25	-2,220.46	2,990.02	7,517.40	7,496.00	21.40	351.271		
6,100.00	5,897.08	100.00	142.78	28.35	2.00	152.78	-2,220.46	2,990.02	7,602.70	7,581.37	21.33	356.367		
6,200.00	5,995.98	100.00	142.78	28.63	2.00	154.16	-2,220.46	2,990.02	7,686.73	7,665.47	21.26	361.593		
6,300.00	6,095.33	100.00	142.78	28.87	2.00	155.42	-2,220.46	2,990.02	7,769.42	7,748.25	21.17	367.010		
6,400.00	6,195.01	100.00	142.78	29.06	2.00	156.55	-2,220.46	2,990.02	7,850.71	7,829.64	21.07	372.677		
6,500.00	6,294.91	100.00	142.78	29.20	2.00	157.59	-2,220.46	2,990.02	7,930.55	7,909.61	20.94	378.654		
6,600.00	6,394.89	100.00	142.78	29.30	2.00	43.20	-2,220.46	2,990.02	8,008.77	7,987.69	21.08	379.892		
6,700.00	6,494.28	100.00	142.78	29.34	2.00	37.61	-2,220.46	2,990.02	8,082.07	8,060.32	21.75	371.632		
6,800.00	6,591.26	100.00	142.78	29.31	2.00	33.51	-2,220.46	2,990.02	8,148.10	8,126.34	21.76	374.432		
6,900.00	6,683.95	100.00	142.78	29.23	2.00	30.51	-2,220.46	2,990.02	8,205.77	8,184.66	21.11	388.716		
7,000.00	6,770.55	100.00	142.78	29.09	2.00	28.34	-2,220.46	2,990.02	8,254.14	8,234.29	19.85	415.855		
7,100.00	6,849.36	100.00	142.78	28.92	2.00	26.80	-2,220.46	2,990.02	8,292.44	8,274.37	18.06	459.055		
7,200.00	6,918.86	100.00	142.78	28.73	2.00	25.78	-2,220.46	2,990.02	8,320.06	8,304.19	15.87	524.260		
7,300.00	6,977.70	100.00	142.78	28.54	2.00	25.20	-2,220.46	2,990.02	8,336.58	8,323.01	13.57	614.336		
7,400.00	7,027.98	100.00	142.78	28.35	2.00	25.08	-2,220.46	2,990.02	8,345.08	8,331.95	13.13	635.531		
7,500.00	7,070.01	100.00	142.78	28.19	2.00	25.04	-2,220.46	2,990.02	8,346.38	8,335.22	11.16	748.079		
7,600.00	7,099.01	100.00	142.78	28.06	2.00	25.39	-2,220.46	2,990.02	8,336.25	8,326.37	9.88	843.854		
7,700.00	7,114.42	100.00	142.78	27.97	2.00	26.15	-2,220.46	2,990.02	8,314.85	8,304.88	9.98	833.496		
7,800.00	7,117.13	100.00	142.78	28.00	2.00	26.81	-2,220.46	2,990.02	8,283.51	8,272.21	11.30	732.762		
7,900.00	7,117.44	100.00	142.78	28.26	2.00	26.81	-2,220.46	2,990.02	8,251.21	8,238.63	12.58	656.157		
8,000.00	7,117.75	100.00	142.78	28.94	2.00	26.81	-2,220.46	2,990.02	8,219.99	8,206.08	13.91	590.910		
8,100.00	7,118.06	100.00	142.78	30.16	2.00	26.81	-2,220.46	2,990.02	8,189.88	8,174.58	15.29	535.509		
8,200.00	7,118.37	100.00	142.78	31.76	2.00	26.81	-2,220.46	2,990.02	8,160.88	8,144.16	16.71	488.343		
8,300.00	7,118.68	100.00	142.78	33.58	2.00	26.81	-2,220.46	2,990.02	8,133.00	8,114.85	18.16	447.967		
8,400.00	7,118.99	100.00	142.78	35.53	2.00	26.81	-2,220.46	2,990.02	8,106.27	8,086.65	19.62	413.175		
8,500.00	7,119.30	100.00	142.78	37.56	2.00	26.81	-2,220.46	2,990.02	8,080.68	8,059.58	21.10	382.984		
8,600.00	7,119.61	100.00	142.78	39.66	2.00	26.81	-2,220.46	2,990.02	8,056.25	8,033.66	22.59	356.605		
8,700.00	7,119.92	100.00	142.78	41.80	2.00	26.81	-2,220.46	2,990.02	8,033.00	8,008.91	24.09	333.404		
8,800.00	7,120.23	100.00	142.78	43.99	2.00	26.81	-2,220.46	2,990.02	8,010.92	7,985.32	25.60	312.873		
8,900.00	7,120.54	100.00	142.78	46.22	2.00	26.81	-2,220.46	2,990.02	7,990.04	7,962.92	27.12	294.600		
9,000.00	7,120.85	100.00	142.78	48.47	2.00	26.81	-2,220.46	2,990.02	7,970.36	7,941.71	28.64	278.251		
9,100.00	7,121.16	100.00	142.78	50.75	2.00	26.81	-2,220.46	2,990.02	7,951.88	7,921.71	30.17	263.550		
9,200.00	7,121.47	100.00	142.78	53.05	2.00	26.81	-2,220.46	2,990.02	7,934.62	7,902.92	31.70	250.274		
9,300.00	7,121.78	100.00	142.78	55.37	2.00	26.81	-2,220.46	2,990.02	7,918.59	7,885.35	33.24	238.233		
9,400.00	7,122.09	100.00	142.78	57.71	2.00	26.81	-2,220.46	2,990.02	7,903.79	7,869.01	34.78	227.271		
9,500.00	7,122.40	100.00	142.78	60.06	2.00	26.81	-2,220.46	2,990.02	7,890.23	7,853.91	36.32	217.256		
9,600.00	7,122.71	100.00	142.78	62.43	2.00	26.81	-2,220.46	2,990.02	7,877.92	7,840.06	37.86	208.077		
9,700.00	7,123.02	100.00	142.78	64.80	2.00	26.81	-2,220.46	2,990.02	7,866.86	7,827.45	39.41	199.638		
9,800.00	7,123.33	100.00	142.78	67.19	2.00	26.81	-2,220.46	2,990.02	7,857.05	7,816.10	40.95	191.859		
9,900.00	7,123.65	100.00	142.78	69.59	2.00	26.81	-2,220.46	2,990.02	7,848.51	7,806.01	42.50	184.669		
10,000.00	7,123.96	100.00	142.78	71.99	2.00	26.81	-2,220.46	2,990.02	7,841.23	7,797.18	44.05	178.008		
10,100.00	7,124.27	100.00	142.78	74.40	2.00	26.81	-2,220.46	2,990.02	7,835.23	7,789.63	45.60	171.822		
10,200.00	7,124.58	100.00	142.78	76.82	2.00	26.81	-2,220.46	2,990.02	7,830.49	7,783.34	47.15	166.066		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230J - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	7,124.89	100.00	142.78	79.25	2.00	26.81	-2,220.46	2,990.02	7,827.03	7,778.33	48.71	160.701		
10,400.00	7,125.20	100.00	142.78	81.68	2.00	26.81	-2,220.46	2,990.02	7,824.85	7,774.59	50.26	155.689		
10,500.00	7,125.51	100.00	142.78	84.12	2.00	26.81	-2,220.46	2,990.02	7,823.94	7,772.13	51.81	151.000		
10,520.83	7,125.57	100.00	142.78	84.63	2.00	26.81	-2,220.46	2,990.02	7,823.92	7,771.58	52.34	149.479		
10,600.00	7,125.82	100.00	142.78	86.56	2.00	26.81	-2,220.46	2,990.02	7,824.32	7,770.95	53.37	146.606		
10,700.00	7,126.13	100.00	142.78	89.01	2.00	26.81	-2,220.46	2,990.02	7,825.97	7,771.04	54.93	142.483		
10,800.00	7,126.44	100.00	142.78	91.46	2.00	26.81	-2,220.46	2,990.02	7,828.90	7,772.41	56.48	138.607		
10,900.00	7,126.75	100.00	142.78	93.91	2.00	26.81	-2,220.46	2,990.02	7,833.10	7,775.06	58.04	134.961		
11,000.00	7,127.06	100.00	142.78	96.37	2.00	26.81	-2,220.46	2,990.02	7,838.58	7,778.98	59.60	131.525		
11,100.00	7,127.37	100.00	142.78	98.83	2.00	26.81	-2,220.46	2,990.02	7,845.32	7,784.17	61.16	128.284		
11,200.00	7,127.68	100.00	142.78	101.30	2.00	26.81	-2,220.46	2,990.02	7,853.34	7,790.63	62.71	125.223		
11,300.00	7,127.99	100.00	142.78	103.77	2.00	26.81	-2,220.46	2,990.02	7,862.62	7,798.35	64.27	122.330		
11,400.00	7,128.30	100.00	142.78	106.24	2.00	26.81	-2,220.46	2,990.02	7,873.16	7,807.32	65.83	119.592		
11,500.00	7,128.61	100.00	142.78	108.71	2.00	26.81	-2,220.46	2,990.02	7,884.95	7,817.56	67.39	116.999		
11,600.00	7,128.92	100.00	142.78	111.19	2.00	26.81	-2,220.46	2,990.02	7,897.99	7,829.04	68.95	114.540		
11,700.00	7,129.23	100.00	142.78	113.66	2.00	26.81	-2,220.46	2,990.02	7,912.28	7,841.76	70.51	112.208		
11,800.00	7,129.54	100.00	142.78	116.14	2.00	26.81	-2,220.46	2,990.02	7,927.80	7,855.72	72.08	109.993		
11,900.00	7,129.85	100.00	142.78	118.62	2.00	26.81	-2,220.46	2,990.02	7,944.54	7,870.91	73.64	107.889		
12,000.00	7,130.16	100.00	142.78	121.11	2.00	26.81	-2,220.46	2,990.02	7,962.51	7,887.32	75.20	105.887		
12,100.00	7,130.47	100.00	142.78	123.59	2.00	26.81	-2,220.46	2,990.02	7,981.70	7,904.94	76.76	103.983		
12,200.00	7,130.78	100.00	142.78	126.08	2.00	26.81	-2,220.46	2,990.02	8,002.08	7,923.76	78.32	102.170		
12,300.00	7,131.09	100.00	142.78	128.57	2.00	26.81	-2,220.46	2,990.02	8,023.66	7,943.78	79.88	100.442		
12,400.00	7,131.40	100.00	142.78	131.06	2.00	26.81	-2,220.46	2,990.02	8,046.43	7,964.98	81.45	98.795		
12,500.00	7,131.71	100.00	142.78	133.55	2.00	26.81	-2,220.46	2,990.02	8,070.37	7,987.36	83.01	97.224		
12,600.00	7,132.02	100.00	142.78	136.04	2.00	26.81	-2,220.46	2,990.02	8,095.47	8,010.90	84.57	95.724		
12,700.00	7,132.33	100.00	142.78	138.54	2.00	26.81	-2,220.46	2,990.02	8,121.73	8,035.59	86.13	94.292		
12,800.00	7,132.64	100.00	142.78	141.03	2.00	26.81	-2,220.46	2,990.02	8,149.13	8,061.43	87.70	92.924		
12,900.00	7,132.95	100.00	142.78	143.53	2.00	26.81	-2,220.46	2,990.02	8,177.66	8,088.40	89.26	91.616		
13,000.00	7,133.26	100.00	142.78	146.02	2.00	26.81	-2,220.46	2,990.02	8,207.31	8,116.49	90.82	90.366		
13,100.00	7,133.57	100.00	142.78	148.52	2.00	26.81	-2,220.46	2,990.02	8,238.07	8,145.68	92.39	89.170		
13,200.00	7,133.88	100.00	142.78	151.02	2.00	26.81	-2,220.46	2,990.02	8,269.92	8,175.97	93.95	88.025		
13,300.00	7,134.19	100.00	142.78	153.52	2.00	26.81	-2,220.46	2,990.02	8,302.86	8,207.35	95.51	86.929		
13,400.00	7,134.50	100.00	142.78	156.02	2.00	26.81	-2,220.46	2,990.02	8,336.87	8,239.79	97.08	85.879		
13,500.00	7,134.81	100.00	142.78	158.52	2.00	26.81	-2,220.46	2,990.02	8,371.93	8,273.29	98.64	84.872		
13,600.00	7,135.12	100.00	142.78	161.03	2.00	26.81	-2,220.46	2,990.02	8,408.03	8,307.83	100.21	83.908		
13,700.00	7,135.43	100.00	142.78	163.53	2.00	26.81	-2,220.46	2,990.02	8,445.17	8,343.40	101.77	82.983		
13,800.00	7,135.74	100.00	142.78	166.03	2.00	26.81	-2,220.46	2,990.02	8,483.32	8,379.98	103.33	82.097		
13,900.00	7,136.05	100.00	142.78	168.54	2.00	26.81	-2,220.46	2,990.02	8,522.47	8,417.57	104.90	81.246		
14,000.00	7,136.36	100.00	142.78	171.04	2.00	26.81	-2,220.46	2,990.02	8,562.61	8,456.15	106.46	80.429		
14,100.00	7,136.67	100.00	142.78	173.55	2.00	26.81	-2,220.46	2,990.02	8,603.73	8,495.70	108.03	79.645		
14,200.00	7,136.98	100.00	142.78	176.05	2.00	26.81	-2,220.46	2,990.02	8,645.81	8,536.22	109.59	78.892		
14,300.00	7,137.29	100.00	142.78	178.56	2.00	26.81	-2,220.46	2,990.02	8,688.83	8,577.68	111.16	78.168		
14,400.00	7,137.60	100.00	142.78	181.07	2.00	26.81	-2,220.46	2,990.02	8,732.79	8,620.07	112.72	77.473		
14,500.00	7,137.91	100.00	142.78	183.58	2.00	26.81	-2,220.46	2,990.02	8,777.67	8,663.39	114.28	76.805		
14,600.00	7,138.22	100.00	142.78	186.09	2.00	26.81	-2,220.46	2,990.02	8,823.45	8,707.60	115.85	76.163		
14,700.00	7,138.53	100.00	142.78	188.59	2.00	26.81	-2,220.46	2,990.02	8,870.13	8,752.71	117.41	75.545		
14,800.00	7,138.84	100.00	142.78	191.10	2.00	26.81	-2,220.46	2,990.02	8,917.68	8,798.70	118.98	74.951		
14,900.00	7,139.15	100.00	142.78	193.61	2.00	26.81	-2,220.46	2,990.02	8,966.09	8,845.55	120.54	74.380		
15,000.00	7,139.46	100.00	142.78	196.13	2.00	26.81	-2,220.46	2,990.02	9,015.36	8,893.25	122.11	73.830		
15,100.00	7,139.77	100.00	142.78	198.64	2.00	26.81	-2,220.46	2,990.02	9,065.46	8,941.78	123.67	73.301		
15,200.00	7,140.08	100.00	142.78	201.15	2.00	26.81	-2,220.46	2,990.02	9,116.38	8,991.14	125.24	72.791		
15,300.00	7,140.39	100.00	142.78	203.66	2.00	26.81	-2,220.46	2,990.02	9,168.11	9,041.30	126.80	72.301		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 230J - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	7,140.70	100.00	142.78	206.17	2.00	26.81	-2,220.46	2,990.02	9,220.63	9,092.26	128.37	71.828	
15,500.00	7,141.01	100.00	142.78	208.68	2.00	26.81	-2,220.46	2,990.02	9,273.93	9,144.00	129.94	71.373	
15,600.00	7,141.32	100.00	142.78	211.20	2.00	26.81	-2,220.46	2,990.02	9,328.01	9,196.50	131.50	70.935	
15,700.00	7,141.63	100.00	142.78	213.71	2.00	26.81	-2,220.46	2,990.02	9,382.83	9,249.77	133.07	70.513	
15,800.00	7,141.94	100.00	142.78	216.22	2.00	26.81	-2,220.46	2,990.02	9,438.40	9,303.77	134.63	70.105	
15,900.00	7,142.25	100.00	142.78	218.74	2.00	26.81	-2,220.46	2,990.02	9,494.69	9,358.50	136.20	69.713	
16,000.00	7,142.56	100.00	142.78	221.25	2.00	26.81	-2,220.46	2,990.02	9,551.70	9,413.94	137.76	69.335	
16,100.00	7,142.87	100.00	142.78	223.77	2.00	26.81	-2,220.46	2,990.02	9,609.42	9,470.09	139.33	68.970	
16,200.00	7,143.18	100.00	142.78	226.28	2.00	26.81	-2,220.46	2,990.02	9,667.82	9,526.92	140.89	68.618	
16,300.00	7,143.49	100.00	142.78	228.80	2.00	26.81	-2,220.46	2,990.02	9,726.90	9,584.44	142.46	68.278	
16,400.00	7,143.80	100.00	142.78	231.31	2.00	26.81	-2,220.46	2,990.02	9,786.64	9,642.62	144.02	67.951	
16,500.00	7,144.11	100.00	142.78	233.83	2.00	26.81	-2,220.46	2,990.02	9,847.04	9,701.45	145.59	67.635	
16,600.00	7,144.42	100.00	142.78	236.34	2.00	26.81	-2,220.46	2,990.02	9,908.08	9,760.92	147.16	67.330	
16,700.00	7,144.73	100.00	142.78	238.86	2.00	26.81	-2,220.46	2,990.02	9,969.75	9,821.03	148.72	67.036	
16,800.00	7,145.05	100.00	142.78	241.37	2.00	26.81	-2,220.46	2,990.02	10,032.03	9,881.75	150.29	66.752	
16,900.00	7,145.36	100.00	142.78	243.89	2.00	26.81	-2,220.46	2,990.02	10,094.93	9,943.07	151.85	66.478	
17,000.00	7,145.67	100.00	142.78	246.41	2.00	26.81	-2,220.46	2,990.02	10,158.41	10,004.99	153.42	66.213	
17,100.00	7,145.98	100.00	142.78	248.93	2.00	26.81	-2,220.46	2,990.02	10,222.49	10,067.50	154.99	65.958	
17,200.00	7,146.29	100.00	142.78	251.44	2.00	26.81	-2,220.46	2,990.02	10,287.13	10,130.58	156.55	65.711	
17,300.00	7,146.60	100.00	142.78	253.96	2.00	26.81	-2,220.46	2,990.02	10,352.34	10,194.22	158.12	65.473	
17,400.00	7,146.91	100.00	142.78	256.48	2.00	26.81	-2,220.46	2,990.02	10,418.10	10,258.41	159.68	65.242	
17,430.36	7,147.00	100.00	142.78	257.24	2.00	26.81	-2,220.46	2,990.02	10,438.17	10,278.01	160.16	65.174 SF	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 239 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	10.74	0.00	0.00	63.25	3,153.77	6,255.91	7,005.91					
100.00	100.00	89.26	100.00	0.08	1.79	63.25	3,153.77	6,255.91	7,005.90	7,004.03	1.87	3,747.456		
200.00	200.00	189.26	200.00	0.31	5.57	63.25	3,153.77	6,255.91	7,005.90	7,000.02	5.88	1,191.591		
300.00	300.00	289.26	300.00	0.53	9.57	63.25	3,153.77	6,255.91	7,005.90	6,995.80	10.10	693.364		
400.00	400.00	389.26	400.00	0.76	13.57	63.25	3,153.77	6,255.91	7,005.90	6,991.57	14.33	488.932		
500.00	500.00	489.26	500.00	0.98	17.57	63.25	3,153.77	6,255.91	7,005.90	6,987.35	18.55	377.600		
600.00	600.00	589.26	600.00	1.21	21.57	63.25	3,153.77	6,255.91	7,005.90	6,983.12	22.78	307.566		
700.00	700.00	689.26	700.00	1.43	25.57	63.25	3,153.77	6,255.91	7,005.90	6,978.90	27.00	259.446		
800.00	800.00	789.26	800.00	1.66	29.57	63.25	3,153.77	6,255.91	7,005.90	6,974.67	31.23	224.346		
900.00	900.00	889.26	900.00	1.88	33.57	63.25	3,153.77	6,255.91	7,005.90	6,970.45	35.45	197.612		
1,000.00	1,000.00	989.26	1,000.00	2.11	37.57	63.25	3,153.77	6,255.91	7,005.90	6,966.23	39.68	176.571		
1,100.00	1,099.98	1,089.24	1,099.98	2.33	41.57	86.88	3,153.77	6,255.91	7,005.81	6,961.91	43.90	159.586		
1,200.00	1,199.84	1,189.10	1,199.84	2.56	45.56	86.93	3,153.77	6,255.91	7,005.52	6,957.41	48.12	145.592		
1,300.00	1,299.45	1,288.71	1,299.45	2.79	49.55	87.01	3,153.77	6,255.91	7,005.06	6,952.73	52.33	133.856		
1,400.00	1,398.70	1,387.96	1,398.70	3.03	53.52	87.12	3,153.77	6,255.91	7,004.43	6,947.88	56.55	123.866		
1,500.00	1,497.47	1,486.73	1,497.47	3.30	57.47	87.26	3,153.77	6,255.91	7,003.66	6,942.89	60.77	115.250		
1,600.00	1,595.62	1,584.88	1,595.62	3.61	61.40	87.43	3,153.77	6,255.91	7,002.76	6,937.76	65.00	107.736		
1,700.00	1,693.06	1,682.32	1,693.06	3.95	65.29	87.63	3,153.77	6,255.91	7,001.76	6,932.52	69.24	101.119		
1,800.00	1,789.64	1,778.90	1,789.64	4.35	69.16	87.86	3,153.77	6,255.91	7,000.71	6,927.21	73.50	95.244		
1,900.00	1,885.30	1,874.56	1,885.30	4.80	72.98	88.10	3,153.77	6,255.91	6,999.63	6,921.85	77.78	89.991		
2,000.00	1,980.64	1,969.90	1,980.64	5.29	76.80	88.34	3,153.77	6,255.91	6,998.65	6,916.57	82.09	85.261		
2,100.00	2,075.99	2,065.25	2,075.99	5.80	80.61	88.57	3,153.77	6,255.91	6,997.80	6,911.39	86.41	80.984		
2,200.00	2,171.34	2,160.60	2,171.34	6.33	84.42	88.81	3,153.77	6,255.91	6,997.08	6,906.33	90.75	77.103		
2,300.00	2,266.68	2,255.94	2,266.68	6.87	88.24	89.04	3,153.77	6,255.91	6,996.48	6,901.38	95.10	73.568		
2,400.00	2,362.03	2,351.29	2,362.03	7.41	92.05	89.28	3,153.77	6,255.91	6,996.02	6,896.56	99.46	70.337		
2,500.00	2,457.38	2,446.64	2,457.38	7.97	95.87	89.51	3,153.77	6,255.91	6,995.69	6,891.85	103.83	67.374		
2,600.00	2,552.72	2,541.98	2,552.72	8.53	99.68	89.75	3,153.77	6,255.91	6,995.48	6,887.27	108.21	64.648		
2,700.00	2,648.07	2,637.33	2,648.07	9.10	103.49	89.98	3,153.77	6,255.91	6,995.41	6,882.82	112.59	62.133		
2,706.62	2,644.39	2,643.65	2,644.39	9.13	103.75	90.00	3,153.77	6,255.91	6,995.41	6,882.53	112.88	61.973		
2,800.00	2,743.42	2,732.68	2,743.42	9.67	107.31	90.22	3,153.77	6,255.91	6,995.47	6,878.49	116.97	59.805		
2,900.00	2,838.77	2,828.03	2,838.77	10.24	111.12	90.46	3,153.77	6,255.91	6,995.65	6,874.29	121.36	57.644		
3,000.00	2,934.11	2,923.37	2,934.11	10.82	114.93	90.69	3,153.77	6,255.91	6,995.97	6,870.22	125.75	55.635		
3,100.00	3,029.46	3,018.72	3,029.46	11.40	118.75	90.93	3,153.77	6,255.91	6,996.41	6,866.27	130.14	53.761		
3,200.00	3,124.81	3,114.07	3,124.81	11.98	122.56	91.16	3,153.77	6,255.91	6,996.99	6,862.46	134.53	52.010		
3,300.00	3,220.15	3,209.41	3,220.15	12.56	126.38	91.40	3,153.77	6,255.91	6,997.70	6,858.77	138.93	50.370		
3,400.00	3,315.50	3,304.76	3,315.50	13.14	130.19	91.63	3,153.77	6,255.91	6,998.53	6,855.21	143.32	48.831		
3,500.00	3,410.85	3,400.11	3,410.85	13.73	134.00	91.87	3,153.77	6,255.91	6,999.50	6,851.78	147.72	47.384		
3,600.00	3,506.19	3,495.45	3,506.19	14.32	137.82	92.10	3,153.77	6,255.91	7,000.59	6,848.48	152.12	46.022		
3,700.00	3,601.54	3,590.80	3,601.54	14.91	141.63	92.34	3,153.77	6,255.91	7,001.82	6,845.30	156.51	44.736		
3,800.00	3,696.89	3,675.00	3,685.74	15.50	145.00	92.55	3,153.77	6,255.91	7,003.18	6,842.72	160.46	43.643		
3,900.00	3,792.24	3,675.00	3,685.74	16.09	145.00	92.55	3,153.77	6,255.91	7,005.46	6,844.41	161.05	43.498		
4,000.00	3,887.58	3,675.00	3,685.74	16.68	145.00	92.55	3,153.77	6,255.91	7,009.18	6,847.53	161.64	43.362		
4,100.00	3,982.93	3,675.00	3,685.74	17.27	145.00	92.55	3,153.77	6,255.91	7,014.31	6,852.07	162.24	43.235		
4,200.00	4,078.28	3,675.00	3,685.74	17.86	145.00	92.55	3,153.77	6,255.91	7,020.86	6,858.04	162.83	43.119		
4,300.00	4,173.62	3,675.00	3,685.74	18.45	145.00	92.55	3,153.77	6,255.91	7,028.84	6,865.42	163.42	43.011		
4,400.00	4,268.97	3,675.00	3,685.74	19.05	145.00	92.55	3,153.77	6,255.91	7,038.22	6,874.21	164.01	42.913		
4,500.00	4,364.32	3,675.00	3,685.74	19.64	145.00	92.55	3,153.77	6,255.91	7,049.01	6,884.41	164.60	42.824		
4,600.00	4,459.67	3,675.00	3,685.74	20.23	145.00	92.55	3,153.77	6,255.91	7,061.20	6,896.00	165.20	42.744		
4,700.00	4,555.01	3,675.00	3,685.74	20.83	145.00	92.55	3,153.77	6,255.91	7,074.78	6,908.99	165.79	42.671		
4,800.00	4,650.36	3,675.00	3,685.74	21.42	145.00	92.55	3,153.77	6,255.91	7,089.75	6,923.37	166.38	42.611		
4,900.00	4,745.71	3,675.00	3,685.74	22.02	145.00	92.55	3,153.77	6,255.91	7,106.09	6,939.11	166.98	42.557		
5,000.00	4,841.05	3,675.00	3,685.74	22.61	145.00	92.55	3,153.77	6,255.91	7,123.80	6,956.23	167.57	42.512		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 239 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,936.40	3,675.00	3,685.74	23.21	145.00	92.55	3,153.77	6,255.91	7,142.87	6,974.70	168.17	42.475	
5,200.00	5,031.75	3,675.00	3,685.74	23.80	145.00	92.55	3,153.77	6,255.91	7,163.28	6,994.52	168.76	42.446	
5,300.00	5,127.09	3,675.00	3,685.74	24.40	145.00	92.55	3,153.77	6,255.91	7,185.02	7,015.67	169.36	42.425	
5,400.00	5,222.44	3,675.00	3,685.74	25.00	145.00	92.55	3,153.77	6,255.91	7,208.09	7,038.14	169.95	42.412	
5,500.00	5,317.79	3,675.00	3,685.74	25.59	145.00	92.55	3,153.77	6,255.91	7,232.47	7,061.92	170.55	42.407	
5,600.00	5,413.14	3,675.00	3,685.74	26.19	145.00	92.55	3,153.77	6,255.91	7,258.14	7,086.99	171.15	42.409	
5,700.00	5,508.48	3,675.00	3,685.74	26.78	145.00	92.55	3,153.77	6,255.91	7,285.09	7,113.35	171.74	42.419	
5,800.00	5,604.35	3,675.00	3,685.74	27.24	145.00	93.14	3,153.77	6,255.91	7,313.23	7,141.05	172.18	42.474	
5,900.00	5,701.15	3,675.00	3,685.74	27.65	145.00	93.75	3,153.77	6,255.91	7,342.45	7,169.86	172.58	42.545	
6,000.00	5,798.77	3,675.00	3,685.74	28.02	145.00	94.38	3,153.77	6,255.91	7,372.68	7,199.75	172.93	42.633	
6,100.00	5,897.08	3,675.00	3,685.74	28.35	145.00	95.04	3,153.77	6,255.91	7,403.89	7,230.65	173.24	42.737	
6,200.00	5,995.98	3,675.00	3,685.74	28.63	145.00	95.71	3,153.77	6,255.91	7,436.02	7,262.52	173.50	42.858	
6,300.00	6,095.33	3,675.00	3,685.74	28.87	145.00	96.41	3,153.77	6,255.91	7,469.03	7,295.32	173.71	42.996	
6,400.00	6,195.01	3,675.00	3,685.74	29.06	145.00	97.12	3,153.77	6,255.91	7,502.86	7,328.98	173.88	43.150	
6,500.00	6,294.91	3,675.00	3,685.74	29.20	145.00	97.85	3,153.77	6,255.91	7,537.46	7,363.47	173.99	43.321	
6,600.00	6,394.89	3,675.00	3,685.74	29.30	145.00	-14.88	3,153.77	6,255.91	7,572.43	7,398.47	173.95	43.532	
6,700.00	6,494.28	3,675.00	3,685.74	29.34	145.00	-14.31	3,153.77	6,255.91	7,599.29	7,427.69	171.60	44.284	
6,800.00	6,591.26	3,675.00	3,685.74	29.31	145.00	-14.02	3,153.77	6,255.91	7,614.20	7,448.08	166.11	45.837	
6,900.00	6,683.95	3,675.00	3,685.74	29.23	145.00	-13.97	3,153.77	6,255.91	7,616.93	7,459.29	157.64	48.318	
7,000.00	6,770.55	3,675.00	3,685.74	29.09	145.00	-14.15	3,153.77	6,255.91	7,607.45	7,460.99	146.46	51.944	
7,100.00	6,849.36	3,675.00	3,685.74	28.92	145.00	-14.59	3,153.77	6,255.91	7,585.89	7,452.91	132.98	57.046	
7,200.00	6,918.86	3,675.00	3,685.74	28.73	145.00	-15.32	3,153.77	6,255.91	7,552.57	7,434.72	117.85	64.088	
7,300.00	6,977.70	3,675.00	3,685.74	28.54	145.00	-16.41	3,153.77	6,255.91	7,507.99	7,405.91	102.08	73.553	
7,400.00	7,027.98	3,675.00	3,685.74	28.35	145.00	-16.97	3,153.77	6,255.91	7,455.78	7,359.79	95.99	77.675	
7,500.00	7,070.01	3,675.00	3,685.74	28.19	145.00	-18.75	3,153.77	6,255.91	7,397.16	7,314.62	82.54	89.615	
7,600.00	7,099.01	3,675.00	3,685.74	28.06	145.00	-21.30	3,153.77	6,255.91	7,329.15	7,254.31	74.84	97.932	
7,700.00	7,114.42	3,675.00	3,685.74	27.97	145.00	-25.02	3,153.77	6,255.91	7,252.83	7,175.60	77.23	93.908	
7,800.00	7,117.13	3,675.00	3,685.74	28.00	145.00	-28.04	3,153.77	6,255.91	7,169.99	7,085.37	84.62	84.735	
7,900.00	7,117.44	3,675.00	3,685.74	28.26	145.00	-28.04	3,153.77	6,255.91	7,086.36	7,000.84	85.52	82.862	
8,000.00	7,117.75	3,675.00	3,685.74	28.94	145.00	-28.04	3,153.77	6,255.91	7,003.17	6,916.69	86.48	80.981	
8,100.00	7,118.06	3,675.00	3,685.74	30.16	145.00	-28.04	3,153.77	6,255.91	6,920.42	6,832.93	87.49	79.103	
8,200.00	7,118.37	3,675.00	3,685.74	31.76	145.00	-28.04	3,153.77	6,255.91	6,838.13	6,749.60	88.53	77.237	
8,300.00	7,118.68	3,675.00	3,685.74	33.58	145.00	-28.04	3,153.77	6,255.91	6,756.32	6,666.70	89.62	75.391	
8,400.00	7,118.99	3,675.00	3,685.74	35.53	145.00	-28.04	3,153.77	6,255.91	6,675.00	6,584.28	90.73	73.571	
8,500.00	7,119.30	3,675.00	3,685.74	37.56	145.00	-28.04	3,153.77	6,255.91	6,594.20	6,502.34	91.87	71.780	
8,600.00	7,119.61	3,675.00	3,685.74	39.66	145.00	-28.04	3,153.77	6,255.91	6,513.93	6,420.91	93.03	70.023	
8,700.00	7,119.92	3,675.00	3,685.74	41.80	145.00	-28.04	3,153.77	6,255.91	6,434.22	6,340.01	94.20	68.300	
8,800.00	7,120.23	3,675.00	3,685.74	43.99	145.00	-28.04	3,153.77	6,255.91	6,355.08	6,259.68	95.40	66.615	
8,900.00	7,120.54	3,675.00	3,685.74	46.22	145.00	-28.04	3,153.77	6,255.91	6,276.53	6,179.92	96.61	64.968	
9,000.00	7,120.85	3,675.00	3,685.74	48.47	145.00	-28.04	3,153.77	6,255.91	6,198.60	6,100.77	97.83	63.359	
9,100.00	7,121.16	3,675.00	3,685.74	50.75	145.00	-28.04	3,153.77	6,255.91	6,121.31	6,022.25	99.07	61.790	
9,200.00	7,121.47	3,675.00	3,685.74	53.05	145.00	-28.04	3,153.77	6,255.91	6,044.69	5,944.38	100.31	60.260	
9,300.00	7,121.78	3,675.00	3,685.74	55.37	145.00	-28.04	3,153.77	6,255.91	5,968.76	5,867.20	101.56	58.769	
9,400.00	7,122.09	3,675.00	3,685.74	57.71	145.00	-28.04	3,153.77	6,255.91	5,893.55	5,790.73	102.82	57.317	
9,500.00	7,122.40	3,675.00	3,685.74	60.06	145.00	-28.04	3,153.77	6,255.91	5,819.09	5,715.00	104.09	55.904	
9,600.00	7,122.71	3,675.00	3,685.74	62.43	145.00	-28.04	3,153.77	6,255.91	5,745.40	5,640.03	105.36	54.529	
9,700.00	7,123.02	3,675.00	3,685.74	64.80	145.00	-28.04	3,153.77	6,255.91	5,672.51	5,565.87	106.64	53.191	
9,800.00	7,123.33	3,675.00	3,685.74	67.19	145.00	-28.04	3,153.77	6,255.91	5,600.47	5,492.54	107.93	51.891	
9,900.00	7,123.65	3,675.00	3,685.74	69.59	145.00	-28.04	3,153.77	6,255.91	5,529.29	5,420.07	109.22	50.626	
10,000.00	7,123.96	3,675.00	3,685.74	71.99	145.00	-28.04	3,153.77	6,255.91	5,459.02	5,348.51	110.51	49.398	
10,100.00	7,124.27	3,675.00	3,685.74	74.40	145.00	-28.04	3,153.77	6,255.91	5,389.69	5,277.88	111.81	48.205	
10,200.00	7,124.58	3,675.00	3,685.74	76.82	145.00	-28.04	3,153.77	6,255.91	5,321.33	5,208.22	113.11	47.046	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 239 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)						
10,300.00	7,124.89	3,675.00	3,685.74	79.25	145.00	-28.04	3,153.77	6,255.91	5,253.99	5,139.57	114.41	45.921		
10,400.00	7,125.20	3,675.00	3,685.74	81.68	145.00	-28.04	3,153.77	6,255.91	5,187.70	5,071.98	115.72	44.829		
10,500.00	7,125.51	3,675.00	3,685.74	84.12	145.00	-28.04	3,153.77	6,255.91	5,122.50	5,005.47	117.03	43.771		
10,600.00	7,125.82	3,675.00	3,685.74	86.56	145.00	-28.04	3,153.77	6,255.91	5,058.44	4,940.10	118.34	42.744		
10,700.00	7,126.13	3,675.00	3,685.74	89.01	145.00	-28.04	3,153.77	6,255.91	4,995.57	4,875.91	119.66	41.749		
10,800.00	7,126.44	3,675.00	3,685.74	91.46	145.00	-28.04	3,153.77	6,255.91	4,933.91	4,812.94	120.97	40.785		
10,900.00	7,126.75	3,675.00	3,685.74	93.91	145.00	-28.04	3,153.77	6,255.91	4,873.53	4,751.24	122.29	39.851		
11,000.00	7,127.06	3,675.00	3,685.74	96.37	145.00	-28.04	3,153.77	6,255.91	4,814.47	4,690.86	123.61	38.948		
11,100.00	7,127.37	3,675.00	3,685.74	98.83	145.00	-28.04	3,153.77	6,255.91	4,756.78	4,631.85	124.94	38.074		
11,200.00	7,127.68	3,675.00	3,685.74	101.30	145.00	-28.04	3,153.77	6,255.91	4,700.51	4,574.25	126.26	37.229		
11,300.00	7,127.99	3,675.00	3,685.74	103.77	145.00	-28.04	3,153.77	6,255.91	4,645.71	4,518.12	127.59	36.412		
11,400.00	7,128.30	3,675.00	3,685.74	106.24	145.00	-28.04	3,153.77	6,255.91	4,592.43	4,463.52	128.91	35.624		
11,500.00	7,128.61	3,675.00	3,685.74	108.71	145.00	-28.04	3,153.77	6,255.91	4,540.74	4,410.49	130.24	34.864		
11,600.00	7,128.92	3,675.00	3,685.74	111.19	145.00	-28.04	3,153.77	6,255.91	4,490.67	4,359.10	131.57	34.131		
11,700.00	7,129.23	3,675.00	3,685.74	113.66	145.00	-28.04	3,153.77	6,255.91	4,442.29	4,309.39	132.90	33.426		
11,800.00	7,129.54	3,675.00	3,685.74	116.14	145.00	-28.04	3,153.77	6,255.91	4,395.65	4,261.42	134.23	32.747		
11,900.00	7,129.85	3,675.00	3,685.74	118.62	145.00	-28.04	3,153.77	6,255.91	4,350.81	4,215.25	135.56	32.094		
12,000.00	7,130.16	3,675.00	3,685.74	121.11	145.00	-28.04	3,153.77	6,255.91	4,307.83	4,170.93	136.90	31.467		
12,100.00	7,130.47	3,675.00	3,685.74	123.59	145.00	-28.04	3,153.77	6,255.91	4,266.76	4,128.53	138.23	30.866		
12,200.00	7,130.78	3,675.00	3,685.74	126.08	145.00	-28.04	3,153.77	6,255.91	4,227.65	4,088.09	139.57	30.291		
12,300.00	7,131.09	3,675.00	3,685.74	128.57	145.00	-28.04	3,153.77	6,255.91	4,190.57	4,049.67	140.90	29.741		
12,400.00	7,131.40	3,675.00	3,685.74	131.06	145.00	-28.04	3,153.77	6,255.91	4,155.56	4,013.32	142.24	29.215		
12,500.00	7,131.71	3,675.00	3,685.74	133.55	145.00	-28.04	3,153.77	6,255.91	4,122.68	3,979.11	143.58	28.714		
12,600.00	7,132.02	3,675.00	3,685.74	136.04	145.00	-28.04	3,153.77	6,255.91	4,091.99	3,947.07	144.92	28.237		
12,700.00	7,132.33	3,675.00	3,685.74	138.54	145.00	-28.04	3,153.77	6,255.91	4,063.52	3,917.26	146.26	27.784		
12,800.00	7,132.64	3,675.00	3,685.74	141.03	145.00	-28.04	3,153.77	6,255.91	4,037.33	3,889.73	147.60	27.354		
12,900.00	7,132.95	3,675.00	3,685.74	143.53	145.00	-28.04	3,153.77	6,255.91	4,013.46	3,864.52	148.94	26.948		
13,000.00	7,133.26	3,675.00	3,685.74	146.02	145.00	-28.04	3,153.77	6,255.91	3,991.95	3,841.67	150.28	26.564		
13,100.00	7,133.57	3,675.00	3,685.74	148.52	145.00	-28.04	3,153.77	6,255.91	3,972.84	3,821.23	151.62	26.203		
13,200.00	7,133.88	3,675.00	3,685.74	151.02	145.00	-28.04	3,153.77	6,255.91	3,956.17	3,803.21	152.96	25.864		
13,300.00	7,134.19	3,675.00	3,685.74	153.52	145.00	-28.04	3,153.77	6,255.91	3,941.97	3,787.67	154.30	25.547		
13,400.00	7,134.50	3,675.00	3,685.74	156.02	145.00	-28.04	3,153.77	6,255.91	3,930.26	3,774.62	155.64	25.252		
13,500.00	7,134.81	3,675.00	3,685.74	158.52	145.00	-28.04	3,153.77	6,255.91	3,921.07	3,764.08	156.99	24.977		
13,600.00	7,135.12	3,675.00	3,685.74	161.03	145.00	-28.04	3,153.77	6,255.91	3,914.41	3,756.08	158.33	24.723		
13,700.00	7,135.43	3,675.00	3,685.74	163.53	145.00	-28.04	3,153.77	6,255.91	3,910.30	3,750.62	159.67	24.489		
13,800.00	7,135.74	3,675.00	3,685.74	166.03	145.00	-28.04	3,153.77	6,255.91	3,908.74	3,747.72	161.02	24.275		
13,810.87	7,135.77	3,675.00	3,685.74	166.30	145.00	-28.04	3,153.77	6,255.91	3,908.73	3,747.56	161.17	24.253 CC		
13,900.00	7,136.05	3,675.00	3,685.74	168.54	145.00	-28.04	3,153.77	6,255.91	3,909.74	3,747.38	162.36	24.080 ES		
14,000.00	7,136.36	3,675.00	3,685.74	171.04	145.00	-28.04	3,153.77	6,255.91	3,913.30	3,749.59	163.71	23.904		
14,100.00	7,136.67	3,675.00	3,685.74	173.55	145.00	-28.04	3,153.77	6,255.91	3,919.41	3,754.35	165.05	23.746		
14,200.00	7,136.98	3,675.00	3,685.74	176.05	145.00	-28.04	3,153.77	6,255.91	3,928.05	3,761.65	166.40	23.606		
14,300.00	7,137.29	3,675.00	3,685.74	178.56	145.00	-28.04	3,153.77	6,255.91	3,939.21	3,771.47	167.75	23.483		
14,400.00	7,137.60	3,675.00	3,685.74	181.07	145.00	-28.04	3,153.77	6,255.91	3,952.87	3,783.78	169.09	23.377		
14,500.00	7,137.91	3,675.00	3,685.74	183.58	145.00	-28.04	3,153.77	6,255.91	3,969.01	3,798.57	170.44	23.287		
14,600.00	7,138.22	3,675.00	3,685.74	186.09	145.00	-28.04	3,153.77	6,255.91	3,987.59	3,815.80	171.79	23.213		
14,700.00	7,138.53	3,675.00	3,685.74	188.59	145.00	-28.04	3,153.77	6,255.91	4,008.58	3,835.44	173.13	23.153		
14,800.00	7,138.84	3,675.00	3,685.74	191.10	145.00	-28.04	3,153.77	6,255.91	4,031.94	3,857.46	174.48	23.108		
14,900.00	7,139.15	3,675.00	3,685.74	193.61	145.00	-28.04	3,153.77	6,255.91	4,057.63	3,881.80	175.83	23.077		
15,000.00	7,139.46	3,675.00	3,685.74	196.13	145.00	-28.04	3,153.77	6,255.91	4,085.60	3,908.43	177.18	23.060		
15,100.00	7,139.77	3,675.00	3,685.74	198.64	145.00	-28.04	3,153.77	6,255.91	4,115.82	3,937.30	178.52	23.055 SF		
15,200.00	7,140.08	3,675.00	3,685.74	201.15	145.00	-28.04	3,153.77	6,255.91	4,148.23	3,968.36	179.87	23.062		
15,300.00	7,140.39	3,675.00	3,685.74	203.66	145.00	-28.04	3,153.77	6,255.91	4,182.78	4,001.56	181.22	23.081		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 239 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	7,140.70	3,675.00	3,685.74	206.17	145.00	-28.04	3,153.77	6,255.91	4,219.42	4,036.85	182.57	23.111		
15,500.00	7,141.01	3,675.00	3,685.74	208.68	145.00	-28.04	3,153.77	6,255.91	4,258.09	4,074.17	183.92	23.152		
15,600.00	7,141.32	3,675.00	3,685.74	211.20	145.00	-28.04	3,153.77	6,255.91	4,298.73	4,113.47	185.27	23.203		
15,700.00	7,141.63	3,675.00	3,685.74	213.71	145.00	-28.04	3,153.77	6,255.91	4,341.31	4,154.69	186.62	23.263		
15,800.00	7,141.94	3,675.00	3,685.74	216.22	145.00	-28.04	3,153.77	6,255.91	4,385.75	4,197.78	187.97	23.333		
15,900.00	7,142.25	3,675.00	3,685.74	218.74	145.00	-28.04	3,153.77	6,255.91	4,432.00	4,242.68	189.32	23.411		
16,000.00	7,142.56	3,675.00	3,685.74	221.25	145.00	-28.04	3,153.77	6,255.91	4,480.00	4,289.34	190.67	23.497		
16,100.00	7,142.87	3,675.00	3,685.74	223.77	145.00	-28.04	3,153.77	6,255.91	4,529.71	4,337.69	192.02	23.590		
16,200.00	7,143.18	3,675.00	3,685.74	226.28	145.00	-28.04	3,153.77	6,255.91	4,581.06	4,387.69	193.37	23.691		
16,300.00	7,143.49	3,675.00	3,685.74	228.80	145.00	-28.04	3,153.77	6,255.91	4,633.99	4,439.28	194.72	23.799		
16,400.00	7,143.80	3,675.00	3,685.74	231.31	145.00	-28.04	3,153.77	6,255.91	4,688.47	4,492.40	196.07	23.913		
16,500.00	7,144.11	3,675.00	3,685.74	233.83	145.00	-28.04	3,153.77	6,255.91	4,744.42	4,547.01	197.42	24.033		
16,600.00	7,144.42	3,675.00	3,685.74	236.34	145.00	-28.04	3,153.77	6,255.91	4,801.81	4,603.04	198.77	24.158		
16,700.00	7,144.73	3,675.00	3,685.74	238.86	145.00	-28.04	3,153.77	6,255.91	4,860.58	4,660.46	200.12	24.289		
16,800.00	7,145.05	3,675.00	3,685.74	241.37	145.00	-28.04	3,153.77	6,255.91	4,920.67	4,719.20	201.47	24.424		
16,900.00	7,145.36	3,675.00	3,685.74	243.89	145.00	-28.04	3,153.77	6,255.91	4,982.05	4,779.23	202.82	24.564		
17,000.00	7,145.67	3,675.00	3,685.74	246.41	145.00	-28.04	3,153.77	6,255.91	5,044.67	4,840.50	204.17	24.708		
17,100.00	7,145.98	3,675.00	3,685.74	248.93	145.00	-28.04	3,153.77	6,255.91	5,108.47	4,902.95	205.52	24.856		
17,200.00	7,146.29	3,675.00	3,685.74	251.44	145.00	-28.04	3,153.77	6,255.91	5,173.42	4,966.55	206.87	25.008		
17,300.00	7,146.60	3,675.00	3,685.74	253.96	145.00	-28.04	3,153.77	6,255.91	5,239.48	5,031.25	208.23	25.163		
17,400.00	7,146.91	3,675.00	3,685.74	256.48	145.00	-28.04	3,153.77	6,255.91	5,306.60	5,097.02	209.58	25.321		
17,430.36	7,147.00	3,675.00	3,685.74	257.24	145.00	-28.04	3,153.77	6,255.91	5,327.18	5,117.19	209.99	25.369		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 240 - OH - OH													Offset Site Error:
Survey Program: 100-UNKNOWN													Offset Well Error:
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	54.55	0.00	0.00	1.09	83.12	721.96	5,981.72	6,025.13				
100.00	100.00	100.00	45.45	0.08	2.00	83.12	721.96	5,981.72	6,025.38	6,023.29	2.08	2,890.857 ES	
200.00	200.00	100.00	45.45	0.31	2.00	83.12	721.96	5,981.72	6,027.11	6,024.80	2.31	2,610.209	
300.00	300.00	100.00	45.45	0.53	2.00	83.12	721.96	5,981.72	6,030.51	6,027.97	2.53	2,380.006	
400.00	400.00	100.00	45.45	0.76	2.00	83.12	721.96	5,981.72	6,035.55	6,032.80	2.76	2,187.916	
500.00	500.00	100.00	45.45	0.98	2.00	83.12	721.96	5,981.72	6,042.25	6,039.27	2.98	2,025.324	
600.00	600.00	100.00	45.45	1.21	2.00	83.12	721.96	5,981.72	6,050.60	6,047.39	3.21	1,886.027	
700.00	700.00	100.00	45.45	1.43	2.00	83.12	721.96	5,981.72	6,060.58	6,057.15	3.43	1,765.449	
800.00	800.00	100.00	45.45	1.66	2.00	83.12	721.96	5,981.72	6,072.19	6,068.54	3.66	1,660.136	
900.00	900.00	100.00	45.45	1.88	2.00	83.12	721.96	5,981.72	6,085.43	6,081.55	3.88	1,567.434	
1,000.00	1,000.00	100.00	45.45	2.11	2.00	83.12	721.96	5,981.72	6,100.28	6,096.17	4.11	1,485.270	
1,100.00	1,099.98	100.00	45.45	2.33	2.00	106.41	721.96	5,981.72	6,117.21	6,112.88	4.33	1,412.720	
1,200.00	1,199.84	100.00	45.45	2.56	2.00	106.02	721.96	5,981.72	6,136.70	6,132.15	4.55	1,347.905	
1,300.00	1,299.45	100.00	45.45	2.79	2.00	105.59	721.96	5,981.72	6,158.69	6,153.91	4.78	1,287.951	
1,400.00	1,398.70	100.00	45.45	3.03	2.00	105.10	721.96	5,981.72	6,183.12	6,178.10	5.02	1,230.541	
1,500.00	1,497.47	100.00	45.45	3.30	2.00	104.57	721.96	5,981.72	6,209.95	6,204.66	5.29	1,173.782	
1,600.00	1,595.62	100.00	45.45	3.61	2.00	103.98	721.96	5,981.72	6,239.10	6,233.51	5.59	1,116.383	
1,700.00	1,593.06	100.00	45.45	3.95	2.00	103.33	721.96	5,981.72	6,270.51	6,264.58	5.93	1,057.734	
1,800.00	1,789.64	100.00	45.45	4.35	2.00	102.64	721.96	5,981.72	6,304.11	6,297.79	6.32	997.881	
1,900.00	1,885.30	100.00	45.45	4.80	2.00	102.06	721.96	5,981.72	6,339.80	6,333.04	6.76	937.576	
2,000.00	1,980.64	100.00	45.45	5.29	2.00	102.06	721.96	5,981.72	6,377.07	6,369.83	7.24	880.775	
2,100.00	2,075.99	100.00	45.45	5.80	2.00	102.06	721.96	5,981.72	6,415.68	6,407.94	7.74	828.959	
2,200.00	2,171.34	100.00	45.45	6.33	2.00	102.06	721.96	5,981.72	6,455.60	6,447.35	8.25	782.083	
2,300.00	2,266.68	100.00	45.45	6.87	2.00	102.06	721.96	5,981.72	6,496.83	6,488.04	8.78	739.831	
2,400.00	2,362.03	100.00	45.45	7.41	2.00	102.06	721.96	5,981.72	6,539.32	6,530.00	9.32	701.780	
2,500.00	2,457.38	100.00	45.45	7.97	2.00	102.06	721.96	5,981.72	6,583.05	6,573.19	9.86	667.485	
2,600.00	2,552.72	100.00	45.45	8.53	2.00	102.06	721.96	5,981.72	6,628.01	6,617.59	10.41	636.519	
2,700.00	2,648.07	100.00	45.45	9.10	2.00	102.06	721.96	5,981.72	6,674.16	6,663.19	10.97	608.494	
2,800.00	2,743.42	100.00	45.45	9.67	2.00	102.06	721.96	5,981.72	6,721.48	6,709.95	11.53	583.063	
2,900.00	2,838.77	100.00	45.45	10.24	2.00	102.06	721.96	5,981.72	6,769.95	6,757.86	12.09	559.922	
3,000.00	2,934.11	100.00	45.45	10.82	2.00	102.06	721.96	5,981.72	6,819.54	6,806.88	12.66	538.806	
3,100.00	3,029.46	100.00	45.45	11.40	2.00	102.06	721.96	5,981.72	6,870.23	6,857.00	13.23	519.484	
3,200.00	3,124.81	100.00	45.45	11.98	2.00	102.06	721.96	5,981.72	6,921.99	6,908.19	13.80	501.755	
3,300.00	3,220.15	100.00	45.45	12.56	2.00	102.06	721.96	5,981.72	6,974.80	6,960.43	14.37	485.446	
3,400.00	3,315.50	100.00	45.45	13.14	2.00	102.06	721.96	5,981.72	7,028.64	7,013.70	14.94	470.405	
3,500.00	3,410.85	100.00	45.45	13.73	2.00	102.06	721.96	5,981.72	7,083.48	7,067.96	15.52	456.502	
3,600.00	3,506.19	100.00	45.45	14.32	2.00	102.06	721.96	5,981.72	7,139.30	7,123.21	16.09	443.620	
3,700.00	3,601.54	100.00	45.45	14.91	2.00	102.06	721.96	5,981.72	7,196.07	7,179.40	16.67	431.659	
3,800.00	3,696.89	100.00	45.45	15.50	2.00	102.06	721.96	5,981.72	7,253.79	7,236.54	17.25	420.530	
3,900.00	3,792.24	100.00	45.45	16.09	2.00	102.06	721.96	5,981.72	7,312.41	7,294.58	17.83	410.155	
4,000.00	3,887.58	100.00	45.45	16.68	2.00	102.06	721.96	5,981.72	7,371.92	7,353.51	18.41	400.465	
4,100.00	3,982.93	100.00	45.45	17.27	2.00	102.06	721.96	5,981.72	7,432.30	7,413.31	18.99	391.399	
4,200.00	4,078.28	100.00	45.45	17.86	2.00	102.06	721.96	5,981.72	7,493.53	7,473.96	19.57	382.902	
4,300.00	4,173.62	100.00	45.45	18.45	2.00	102.06	721.96	5,981.72	7,555.59	7,535.44	20.15	374.926	
4,400.00	4,268.97	100.00	45.45	19.05	2.00	102.06	721.96	5,981.72	7,618.46	7,597.72	20.73	367.429	
4,500.00	4,364.32	100.00	45.45	19.64	2.00	102.06	721.96	5,981.72	7,682.11	7,660.79	21.32	360.370	
4,600.00	4,459.67	100.00	45.45	20.23	2.00	102.06	721.96	5,981.72	7,746.53	7,724.63	21.90	353.715	
4,700.00	4,555.01	100.00	45.45	20.83	2.00	102.06	721.96	5,981.72	7,811.70	7,789.21	22.48	347.433	
4,800.00	4,650.36	100.00	45.45	21.42	2.00	102.06	721.96	5,981.72	7,877.60	7,854.53	23.07	341.495	
4,900.00	4,745.71	100.00	45.45	22.02	2.00	102.06	721.96	5,981.72	7,944.21	7,920.55	23.65	335.876	
5,000.00	4,841.05	100.00	45.45	22.61	2.00	102.06	721.96	5,981.72	8,011.51	7,987.28	24.24	330.553	
5,100.00	4,936.40	100.00	45.45	23.21	2.00	102.06	721.96	5,981.72	8,079.50	8,054.67	24.82	325.504	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 240 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,031.75	100.00	45.45	23.80	2.00	102.06	721.96	5,981.72	8,148.14	8,122.73	25.41	320.710		
5,300.00	5,127.09	100.00	45.45	24.40	2.00	102.06	721.96	5,981.72	8,217.42	8,191.43	25.99	316.154		
5,400.00	5,222.44	100.00	45.45	25.00	2.00	102.06	721.96	5,981.72	8,287.34	8,260.76	26.58	311.820		
5,500.00	5,317.79	100.00	45.45	25.59	2.00	102.06	721.96	5,981.72	8,357.86	8,330.70	27.16	307.693		
5,600.00	5,413.14	100.00	45.45	26.19	2.00	102.06	721.96	5,981.72	8,428.99	8,401.24	27.75	303.760		
5,700.00	5,508.48	100.00	45.45	26.78	2.00	102.09	721.96	5,981.72	8,500.69	8,472.36	28.33	300.038		
5,800.00	5,604.35	100.00	45.45	27.24	2.00	104.11	721.96	5,981.72	8,572.69	8,544.05	28.63	299.421		
5,900.00	5,701.15	100.00	45.45	27.65	2.00	106.11	721.96	5,981.72	8,644.65	8,615.79	28.87	299.483		
6,000.00	5,798.77	100.00	45.45	28.02	2.00	108.09	721.96	5,981.72	8,716.51	8,687.47	29.04	300.206		
6,100.00	5,897.08	100.00	45.45	28.35	2.00	110.03	721.96	5,981.72	8,788.16	8,759.02	29.14	301.571		
6,200.00	5,995.98	100.00	45.45	28.63	2.00	111.93	721.96	5,981.72	8,859.54	8,830.35	29.19	303.562		
6,300.00	6,095.33	100.00	45.45	28.87	2.00	113.79	721.96	5,981.72	8,930.55	8,901.38	29.17	306.166		
6,400.00	6,195.01	100.00	45.45	29.06	2.00	115.60	721.96	5,981.72	9,001.13	8,972.04	29.09	309.372		
6,500.00	6,294.91	100.00	45.45	29.20	2.00	117.36	721.96	5,981.72	9,071.20	9,042.24	28.97	313.168		
6,600.00	6,394.89	100.00	45.45	29.30	2.00	5.02	721.96	5,981.72	9,140.43	9,111.60	28.83	317.088		
6,700.00	6,494.28	100.00	45.45	29.34	2.00	4.50	721.96	5,981.72	9,202.41	9,173.98	28.43	323.669		
6,800.00	6,591.26	100.00	45.45	29.31	2.00	4.14	721.96	5,981.72	9,253.69	9,226.23	27.46	336.993		
6,900.00	6,683.95	100.00	45.45	29.23	2.00	3.89	721.96	5,981.72	9,293.45	9,267.50	25.94	358.259		
7,000.00	6,770.55	100.00	45.45	29.09	2.00	3.74	721.96	5,981.72	9,321.06	9,297.14	23.92	389.714		
7,100.00	6,849.36	100.00	45.45	28.92	2.00	3.66	721.96	5,981.72	9,336.10	9,314.65	21.45	435.266		
7,200.00	6,918.86	100.00	45.45	28.73	2.00	3.65	721.96	5,981.72	9,338.34	9,319.73	18.61	501.727		
7,300.00	6,977.70	100.00	45.45	28.54	2.00	3.70	721.96	5,981.72	9,327.75	9,312.23	15.51	601.274		
7,400.00	7,027.98	100.00	45.45	28.35	2.00	3.75	721.96	5,981.72	9,308.06	9,293.68	14.38	647.121		
7,500.00	7,070.01	100.00	45.45	28.19	2.00	3.90	721.96	5,981.72	9,280.42	9,269.15	11.28	823.061		
7,600.00	7,099.01	100.00	45.45	28.06	2.00	4.14	721.96	5,981.72	9,240.64	9,232.06	8.58	1,077.434		
7,700.00	7,114.42	100.00	45.45	27.97	2.00	4.50	721.96	5,981.72	9,189.34	9,182.08	7.26	1,266.344		
7,800.00	7,117.13	100.00	45.45	28.00	2.00	4.79	721.96	5,981.72	9,128.25	9,120.47	7.78	1,172.772		
7,900.00	7,117.44	100.00	45.45	28.26	2.00	4.79	721.96	5,981.72	9,065.93	9,057.37	8.56	1,059.520		
8,000.00	7,117.75	100.00	45.45	28.94	2.00	4.79	721.96	5,981.72	9,004.29	8,994.95	9.34	964.519		
8,100.00	7,118.06	100.00	45.45	30.16	2.00	4.79	721.96	5,981.72	8,943.34	8,933.22	10.12	883.835		
8,200.00	7,118.37	100.00	45.45	31.76	2.00	4.79	721.96	5,981.72	8,883.10	8,872.19	10.91	814.553		
8,300.00	7,118.68	100.00	45.45	33.58	2.00	4.79	721.96	5,981.72	8,823.58	8,811.88	11.69	754.478		
8,400.00	7,118.99	100.00	45.45	35.53	2.00	4.79	721.96	5,981.72	8,764.79	8,752.31	12.49	701.935		
8,500.00	7,119.30	100.00	45.45	37.56	2.00	4.79	721.96	5,981.72	8,706.76	8,693.48	13.28	655.624		
8,600.00	7,119.61	100.00	45.45	39.66	2.00	4.79	721.96	5,981.72	8,649.50	8,635.43	14.08	614.524		
8,700.00	7,119.92	100.00	45.45	41.80	2.00	4.79	721.96	5,981.72	8,593.02	8,578.15	14.87	577.822		
8,800.00	7,120.23	100.00	45.45	43.99	2.00	4.79	721.96	5,981.72	8,537.34	8,521.67	15.67	544.864		
8,900.00	7,120.54	100.00	45.45	46.22	2.00	4.79	721.96	5,981.72	8,482.46	8,466.00	16.47	515.118		
9,000.00	7,120.85	100.00	45.45	48.47	2.00	4.79	721.96	5,981.72	8,428.42	8,411.16	17.27	488.149		
9,100.00	7,121.16	100.00	45.45	50.75	2.00	4.79	721.96	5,981.72	8,375.23	8,357.16	18.07	463.595		
9,200.00	7,121.47	100.00	45.45	53.05	2.00	4.79	721.96	5,981.72	8,322.89	8,304.03	18.87	441.154		
9,300.00	7,121.78	100.00	45.45	55.37	2.00	4.79	721.96	5,981.72	8,271.44	8,251.77	19.67	420.573		
9,400.00	7,122.09	100.00	45.45	57.71	2.00	4.79	721.96	5,981.72	8,220.87	8,200.41	20.47	401.638		
9,500.00	7,122.40	100.00	45.45	60.06	2.00	4.79	721.96	5,981.72	8,171.22	8,149.95	21.27	384.164		
9,600.00	7,122.71	100.00	45.45	62.43	2.00	4.79	721.96	5,981.72	8,122.50	8,100.43	22.07	367.996		
9,700.00	7,123.02	100.00	45.45	64.80	2.00	4.79	721.96	5,981.72	8,074.72	8,051.85	22.87	352.998		
9,800.00	7,123.33	100.00	45.45	67.19	2.00	4.79	721.96	5,981.72	8,027.90	8,004.23	23.68	339.053		
9,900.00	7,123.65	100.00	45.45	69.59	2.00	4.79	721.96	5,981.72	7,982.06	7,957.58	24.48	328.059		
10,000.00	7,123.96	100.00	45.45	71.99	2.00	4.79	721.96	5,981.72	7,937.22	7,911.94	25.28	313.927		
10,100.00	7,124.27	100.00	45.45	74.40	2.00	4.79	721.96	5,981.72	7,893.39	7,867.30	26.09	302.578		
10,200.00	7,124.58	100.00	45.45	76.82	2.00	4.79	721.96	5,981.72	7,850.59	7,823.70	26.89	291.944		
10,300.00	7,124.89	100.00	45.45	79.25	2.00	4.79	721.96	5,981.72	7,808.83	7,781.13	27.69	281.962		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 240 - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	100.00	45.45	81.68	2.00	4.79	721.96	5,981.72	7,768.14	7,739.64	28.50	272.580		
10,500.00	7,125.51	100.00	45.45	84.12	2.00	4.79	721.96	5,981.72	7,728.52	7,699.22	29.30	263.748		
10,600.00	7,125.82	100.00	45.45	86.56	2.00	4.79	721.96	5,981.72	7,690.00	7,659.90	30.11	255.422		
10,700.00	7,126.13	100.00	45.45	89.01	2.00	4.79	721.96	5,981.72	7,652.60	7,621.69	30.91	247.565		
10,800.00	7,126.44	100.00	45.45	91.46	2.00	4.79	721.96	5,981.72	7,616.32	7,584.61	31.72	240.142		
10,900.00	7,126.75	100.00	45.45	93.91	2.00	4.79	721.96	5,981.72	7,581.19	7,548.67	32.52	233.120		
11,000.00	7,127.06	100.00	45.45	96.37	2.00	4.79	721.96	5,981.72	7,547.23	7,513.90	33.33	226.471		
11,100.00	7,127.37	100.00	45.45	98.83	2.00	4.79	721.96	5,981.72	7,514.44	7,480.31	34.13	220.170		
11,200.00	7,127.68	100.00	45.45	101.30	2.00	4.79	721.96	5,981.72	7,482.84	7,447.90	34.94	214.192		
11,300.00	7,127.99	100.00	45.45	103.77	2.00	4.79	721.96	5,981.72	7,452.45	7,416.71	35.74	208.518		
11,400.00	7,128.30	100.00	45.45	106.24	2.00	4.79	721.96	5,981.72	7,423.28	7,386.73	36.55	203.126		
11,500.00	7,128.61	100.00	45.45	108.71	2.00	4.79	721.96	5,981.72	7,395.35	7,358.00	37.35	197.999		
11,600.00	7,128.92	100.00	45.45	111.19	2.00	4.79	721.96	5,981.72	7,368.67	7,330.52	38.16	193.122		
11,700.00	7,129.23	100.00	45.45	113.66	2.00	4.79	721.96	5,981.72	7,343.26	7,304.30	38.96	188.478		
11,800.00	7,129.54	100.00	45.45	116.14	2.00	4.79	721.96	5,981.72	7,319.12	7,279.36	39.77	184.054		
11,900.00	7,129.85	100.00	45.45	118.62	2.00	4.79	721.96	5,981.72	7,296.28	7,255.71	40.57	179.837		
12,000.00	7,130.16	100.00	45.45	121.11	2.00	4.79	721.96	5,981.72	7,274.74	7,233.36	41.38	175.816		
12,100.00	7,130.47	100.00	45.45	123.59	2.00	4.79	721.96	5,981.72	7,254.51	7,212.33	42.18	171.979		
12,200.00	7,130.78	100.00	45.45	126.08	2.00	4.79	721.96	5,981.72	7,235.61	7,192.62	42.99	168.316		
12,300.00	7,131.09	100.00	45.45	128.57	2.00	4.79	721.96	5,981.72	7,218.04	7,174.25	43.79	164.819		
12,400.00	7,131.40	100.00	45.45	131.06	2.00	4.79	721.96	5,981.72	7,201.82	7,157.22	44.60	161.478		
12,500.00	7,131.71	100.00	45.45	133.55	2.00	4.79	721.96	5,981.72	7,186.96	7,141.55	45.41	158.285		
12,600.00	7,132.02	100.00	45.45	136.04	2.00	4.79	721.96	5,981.72	7,173.46	7,127.24	46.21	155.233		
12,700.00	7,132.33	100.00	45.45	138.54	2.00	4.79	721.96	5,981.72	7,161.33	7,114.31	47.02	152.315		
12,800.00	7,132.64	100.00	45.45	141.03	2.00	4.79	721.96	5,981.72	7,150.57	7,102.75	47.82	149.524		
12,900.00	7,132.95	100.00	45.45	143.53	2.00	4.79	721.96	5,981.72	7,141.21	7,092.58	48.63	146.853		
13,000.00	7,133.26	100.00	45.45	146.02	2.00	4.79	721.96	5,981.72	7,133.23	7,083.79	49.43	144.298		
13,100.00	7,133.57	100.00	45.45	148.52	2.00	4.79	721.96	5,981.72	7,126.64	7,076.40	50.24	141.852		
13,200.00	7,133.88	100.00	45.45	151.02	2.00	4.79	721.96	5,981.72	7,121.46	7,070.41	51.05	139.511		
13,300.00	7,134.19	100.00	45.45	153.52	2.00	4.79	721.96	5,981.72	7,117.67	7,065.82	51.85	137.270		
13,400.00	7,134.50	100.00	45.45	156.02	2.00	4.79	721.96	5,981.72	7,115.29	7,062.63	52.66	135.124		
13,500.00	7,134.81	100.00	45.45	158.52	2.00	4.79	721.96	5,981.72	7,114.32	7,060.85	53.46	133.068		
13,519.42	7,134.87	100.00	45.45	159.01	2.00	4.79	721.96	5,981.72	7,114.29	7,060.63	53.66	132.585		
13,600.00	7,135.12	100.00	45.45	161.03	2.00	4.79	721.96	5,981.72	7,114.75	7,060.48	54.27	131.100		
13,700.00	7,135.43	100.00	45.45	163.53	2.00	4.79	721.96	5,981.72	7,116.58	7,061.51	55.08	129.215		
13,800.00	7,135.74	100.00	45.45	166.03	2.00	4.79	721.96	5,981.72	7,119.82	7,063.94	55.88	127.409		
13,900.00	7,136.05	100.00	45.45	168.54	2.00	4.79	721.96	5,981.72	7,124.46	7,067.77	56.69	125.679		
14,000.00	7,136.36	100.00	45.45	171.04	2.00	4.79	721.96	5,981.72	7,130.50	7,073.01	57.49	124.022		
14,100.00	7,136.67	100.00	45.45	173.55	2.00	4.79	721.96	5,981.72	7,137.94	7,079.64	58.30	122.435		
14,200.00	7,136.98	100.00	45.45	176.05	2.00	4.79	721.96	5,981.72	7,146.77	7,087.66	59.11	120.914		
14,300.00	7,137.29	100.00	45.45	178.56	2.00	4.79	721.96	5,981.72	7,156.98	7,097.07	59.91	119.458		
14,400.00	7,137.60	100.00	45.45	181.07	2.00	4.79	721.96	5,981.72	7,168.58	7,107.86	60.72	118.063		
14,500.00	7,137.91	100.00	45.45	183.58	2.00	4.79	721.96	5,981.72	7,181.55	7,120.03	61.52	116.727		
14,600.00	7,138.22	100.00	45.45	186.09	2.00	4.79	721.96	5,981.72	7,195.89	7,133.55	62.33	115.447		
14,700.00	7,138.53	100.00	45.45	188.59	2.00	4.79	721.96	5,981.72	7,211.58	7,148.44	63.14	114.221		
14,800.00	7,138.84	100.00	45.45	191.10	2.00	4.79	721.96	5,981.72	7,228.62	7,164.68	63.94	113.048		
14,900.00	7,139.15	100.00	45.45	193.61	2.00	4.79	721.96	5,981.72	7,247.01	7,182.26	64.75	111.924		
15,000.00	7,139.46	100.00	45.45	196.13	2.00	4.79	721.96	5,981.72	7,266.72	7,201.17	65.56	110.848		
15,100.00	7,139.77	100.00	45.45	198.64	2.00	4.79	721.96	5,981.72	7,287.75	7,221.39	66.36	109.818		
15,200.00	7,140.08	100.00	45.45	201.15	2.00	4.79	721.96	5,981.72	7,310.09	7,242.92	67.17	108.833		
15,300.00	7,140.39	100.00	45.45	203.66	2.00	4.79	721.96	5,981.72	7,333.73	7,265.75	67.97	107.890		
15,400.00	7,140.70	100.00	45.45	206.17	2.00	4.79	721.96	5,981.72	7,358.65	7,289.87	68.78	106.987		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 240 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.00	7,141.01	100.00	45.45	208.68	2.00	4.79	721.96	5,981.72	7,384.84	7,315.25	69.59	106.124		
15,600.00	7,141.32	100.00	45.45	211.20	2.00	4.79	721.96	5,981.72	7,412.28	7,341.89	70.39	105.298		
15,700.00	7,141.63	100.00	45.45	213.71	2.00	4.79	721.96	5,981.72	7,440.97	7,369.77	71.20	104.509		
15,800.00	7,141.94	100.00	45.45	216.22	2.00	4.79	721.96	5,981.72	7,470.89	7,398.88	72.01	103.754		
15,900.00	7,142.25	100.00	45.45	218.74	2.00	4.79	721.96	5,981.72	7,502.02	7,429.21	72.81	103.032		
16,000.00	7,142.56	100.00	45.45	221.25	2.00	4.79	721.96	5,981.72	7,534.35	7,460.73	73.62	102.343		
16,100.00	7,142.87	100.00	45.45	223.77	2.00	4.79	721.96	5,981.72	7,567.86	7,493.43	74.42	101.685		
16,200.00	7,143.18	100.00	45.45	226.28	2.00	4.79	721.96	5,981.72	7,602.54	7,527.31	75.23	101.056		
16,300.00	7,143.49	100.00	45.45	228.80	2.00	4.79	721.96	5,981.72	7,638.37	7,562.33	76.04	100.455		
16,400.00	7,143.80	100.00	45.45	231.31	2.00	4.79	721.96	5,981.72	7,675.34	7,598.50	76.84	99.882		
16,500.00	7,144.11	100.00	45.45	233.83	2.00	4.79	721.96	5,981.72	7,713.43	7,635.78	77.65	99.335		
16,600.00	7,144.42	100.00	45.45	236.34	2.00	4.79	721.96	5,981.72	7,752.62	7,674.16	78.46	98.814		
16,700.00	7,144.73	100.00	45.45	238.86	2.00	4.79	721.96	5,981.72	7,792.89	7,713.63	79.26	98.317		
16,800.00	7,145.05	100.00	45.45	241.37	2.00	4.79	721.96	5,981.72	7,834.24	7,754.17	80.07	97.843		
16,900.00	7,145.36	100.00	45.45	243.89	2.00	4.79	721.96	5,981.72	7,876.64	7,795.76	80.88	97.392		
17,000.00	7,145.67	100.00	45.45	246.41	2.00	4.79	721.96	5,981.72	7,920.07	7,838.39	81.68	96.962		
17,100.00	7,145.98	100.00	45.45	248.93	2.00	4.79	721.96	5,981.72	7,964.52	7,882.04	82.49	96.553		
17,200.00	7,146.29	100.00	45.45	251.44	2.00	4.79	721.96	5,981.72	8,009.98	7,926.68	83.30	96.164		
17,300.00	7,146.60	100.00	45.45	253.96	2.00	4.79	721.96	5,981.72	8,056.42	7,972.32	84.10	95.794		
17,400.00	7,146.91	100.00	45.45	256.48	2.00	4.79	721.96	5,981.72	8,103.83	8,018.92	84.91	95.442		
17,430.36	7,147.00	100.00	45.45	257.24	2.00	4.79	721.96	5,981.72	8,118.41	8,033.26	85.15	95.339 SF		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 241 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	131.90	0.00	0.00	102.27	-1,972.67	9,066.85	9,279.90					
100.00	100.00	0.00	131.90	0.08	0.00	102.27	-1,972.67	9,066.85	9,279.02					
148.95	148.95	17.05	148.95	0.19	0.34	102.27	-1,972.67	9,066.85	9,278.97	9,278.43	0.54	N/A		
200.00	200.00	68.10	200.00	0.31	1.36	102.27	-1,972.67	9,066.85	9,278.97	9,277.29	1.67	5,552.552		
300.00	300.00	168.10	300.00	0.53	4.72	102.27	-1,972.67	9,066.85	9,278.97	9,273.71	5.26	1,764.793		
400.00	400.00	268.10	400.00	0.76	8.72	102.27	-1,972.67	9,066.85	9,278.97	9,269.48	9.48	978.527		
500.00	500.00	368.10	500.00	0.98	12.72	102.27	-1,972.67	9,066.85	9,278.97	9,265.26	13.71	676.933		
600.00	600.00	468.10	600.00	1.21	16.72	102.27	-1,972.67	9,066.85	9,278.97	9,261.03	17.93	517.449		
700.00	700.00	568.10	700.00	1.43	20.72	102.27	-1,972.67	9,066.85	9,278.97	9,256.81	22.16	418.785		
800.00	800.00	668.10	800.00	1.66	24.72	102.27	-1,972.67	9,066.85	9,278.97	9,252.58	26.38	351.720		
900.00	900.00	768.10	900.00	1.88	28.72	102.27	-1,972.67	9,066.85	9,278.97	9,248.36	30.61	303.171		
1,000.00	1,000.00	868.10	1,000.00	2.11	32.72	102.27	-1,972.67	9,066.85	9,278.97	9,244.13	34.83	266.398		
1,100.00	1,099.98	968.08	1,099.98	2.33	36.72	125.88	-1,972.67	9,066.85	9,279.99	9,240.94	39.05	237.669		
1,200.00	1,199.84	1,067.94	1,199.84	2.56	40.72	125.86	-1,972.67	9,066.85	9,283.06	9,239.82	43.24	214.705		
1,300.00	1,299.45	1,167.55	1,299.45	2.79	44.70	125.82	-1,972.67	9,066.85	9,288.17	9,240.78	47.40	195.961		
1,400.00	1,398.70	1,266.80	1,398.70	3.03	48.67	125.77	-1,972.67	9,066.85	9,295.34	9,243.81	51.53	180.398		
1,500.00	1,497.47	1,365.57	1,497.47	3.30	52.62	125.69	-1,972.67	9,066.85	9,304.55	9,248.93	55.62	167.287		
1,600.00	1,595.62	1,463.72	1,595.62	3.61	56.55	125.60	-1,972.67	9,066.85	9,315.80	9,256.13	59.68	156.103		
1,700.00	1,693.06	1,561.16	1,693.06	3.95	60.45	125.49	-1,972.67	9,066.85	9,329.11	9,265.41	63.70	146.462		
1,800.00	1,789.64	1,657.74	1,789.64	4.35	64.31	125.37	-1,972.67	9,066.85	9,344.46	9,276.78	67.68	138.074		
1,900.00	1,885.30	1,753.40	1,885.30	4.80	68.14	125.29	-1,972.67	9,066.85	9,361.80	9,290.14	71.67	130.625		
2,000.00	1,980.64	1,848.74	1,980.64	5.29	71.95	125.44	-1,972.67	9,066.85	9,379.81	9,303.98	75.83	123.694		
2,100.00	2,075.99	1,944.09	2,075.99	5.80	75.76	125.58	-1,972.67	9,066.85	9,397.87	9,317.86	80.01	117.462		
2,200.00	2,171.34	2,039.44	2,171.34	6.33	79.58	125.73	-1,972.67	9,066.85	9,415.99	9,331.80	84.20	111.833		
2,300.00	2,266.68	2,134.78	2,266.68	6.87	83.39	125.87	-1,972.67	9,066.85	9,434.18	9,345.79	88.40	106.727		
2,400.00	2,362.03	2,230.13	2,362.03	7.41	87.21	126.01	-1,972.67	9,066.85	9,452.43	9,359.83	92.60	102.078		
2,500.00	2,457.38	2,325.48	2,457.38	7.97	91.02	126.16	-1,972.67	9,066.85	9,470.74	9,373.93	96.81	97.828		
2,600.00	2,552.72	2,420.82	2,552.72	8.53	94.83	126.30	-1,972.67	9,066.85	9,489.11	9,388.08	101.02	93.930		
2,700.00	2,648.07	2,516.17	2,648.07	9.10	98.65	126.44	-1,972.67	9,066.85	9,507.54	9,402.30	105.24	90.342		
2,800.00	2,743.42	2,611.52	2,743.42	9.67	102.46	126.58	-1,972.67	9,066.85	9,526.03	9,416.57	109.46	87.029		
2,900.00	2,838.77	2,706.87	2,838.77	10.24	106.27	126.72	-1,972.67	9,066.85	9,544.57	9,430.90	113.68	83.962		
3,000.00	2,934.11	2,802.21	2,934.11	10.82	110.09	126.86	-1,972.67	9,066.85	9,563.18	9,445.28	117.90	81.114		
3,100.00	3,029.46	2,897.56	3,029.46	11.40	113.90	127.00	-1,972.67	9,066.85	9,581.85	9,459.73	122.12	78.463		
3,200.00	3,124.81	2,992.91	3,124.81	11.98	117.72	127.14	-1,972.67	9,066.85	9,600.57	9,474.23	126.34	75.990		
3,300.00	3,220.15	3,088.25	3,220.15	12.56	121.53	127.28	-1,972.67	9,066.85	9,619.36	9,488.79	130.56	73.677		
3,400.00	3,315.50	3,183.60	3,315.50	13.14	125.34	127.42	-1,972.67	9,066.85	9,638.20	9,503.41	134.78	71.510		
3,500.00	3,410.85	3,278.95	3,410.85	13.73	129.16	127.56	-1,972.67	9,066.85	9,657.09	9,518.09	139.00	69.475		
3,600.00	3,506.19	3,374.29	3,506.19	14.32	132.97	127.70	-1,972.67	9,066.85	9,676.05	9,532.83	143.22	67.561		
3,700.00	3,601.54	3,469.64	3,601.54	14.91	136.79	127.83	-1,972.67	9,066.85	9,695.06	9,547.62	147.44	65.757		
3,800.00	3,696.89	3,550.00	3,681.90	15.50	140.00	127.95	-1,972.67	9,066.85	9,714.14	9,563.07	151.07	64.302		
3,900.00	3,792.24	3,550.00	3,681.90	16.09	140.00	127.95	-1,972.67	9,066.85	9,733.88	9,582.31	151.57	64.222		
4,000.00	3,887.58	3,550.00	3,681.90	16.68	140.00	127.95	-1,972.67	9,066.85	9,754.60	9,602.54	152.06	64.148		
4,100.00	3,982.93	3,550.00	3,681.90	17.27	140.00	127.95	-1,972.67	9,066.85	9,776.30	9,623.74	152.56	64.081		
4,200.00	4,078.28	3,550.00	3,681.90	17.86	140.00	127.95	-1,972.67	9,066.85	9,798.98	9,645.91	153.06	64.020		
4,300.00	4,173.62	3,550.00	3,681.90	18.45	140.00	127.95	-1,972.67	9,066.85	9,822.62	9,669.06	153.56	63.966		
4,400.00	4,268.97	3,550.00	3,681.90	19.05	140.00	127.95	-1,972.67	9,066.85	9,847.22	9,693.15	154.06	63.918		
4,500.00	4,364.32	3,550.00	3,681.90	19.64	140.00	127.95	-1,972.67	9,066.85	9,872.77	9,718.20	154.56	63.876		
4,600.00	4,459.67	3,550.00	3,681.90	20.23	140.00	127.95	-1,972.67	9,066.85	9,899.26	9,744.20	155.06	63.840		
4,700.00	4,555.01	3,550.00	3,681.90	20.83	140.00	127.95	-1,972.67	9,066.85	9,926.69	9,771.13	155.56	63.811		
4,800.00	4,650.36	3,550.00	3,681.90	21.42	140.00	127.95	-1,972.67	9,066.85	9,955.05	9,798.99	156.07	63.788		
4,900.00	4,745.71	3,550.00	3,681.90	22.02	140.00	127.95	-1,972.67	9,066.85	9,984.33	9,827.77	156.57	63.770		
5,000.00	4,841.05	3,550.00	3,681.90	22.61	140.00	127.95	-1,972.67	9,066.85	10,014.53	9,857.46	157.07	63.758		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 241 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	3,550.00	3,681.90	23.21	140.00	127.95	-1,972.67	9,066.85	10,045.63	9,888.06	157.57	63.752		
5,200.00	5,031.75	3,550.00	3,681.90	23.80	140.00	127.95	-1,972.67	9,066.85	10,077.62	9,919.55	158.08	63.752		
5,300.00	5,127.09	3,550.00	3,681.90	24.40	140.00	127.95	-1,972.67	9,066.85	10,110.51	9,951.93	158.58	63.757		
5,400.00	5,222.44	3,550.00	3,681.90	25.00	140.00	127.95	-1,972.67	9,066.85	10,144.27	9,985.19	159.08	63.768		
5,500.00	5,317.79	3,550.00	3,681.90	25.59	140.00	127.95	-1,972.67	9,066.85	10,178.90	10,019.32	159.59	63.783		
5,600.00	5,413.14	3,550.00	3,681.90	26.19	140.00	127.95	-1,972.67	9,066.85	10,214.40	10,054.31	160.09	63.804		
5,700.00	5,508.48	3,550.00	3,681.90	26.78	140.00	127.96	-1,972.67	9,066.85	10,250.75	10,090.15	160.60	63.829		
5,800.00	5,604.35	3,550.00	3,681.90	27.24	140.00	128.57	-1,972.67	9,066.85	10,286.91	10,125.56	161.35	63.756		
5,900.00	5,701.15	3,550.00	3,681.90	27.65	140.00	129.15	-1,972.67	9,066.85	10,321.88	10,159.85	162.03	63.703		
6,000.00	5,798.77	3,550.00	3,681.90	28.02	140.00	129.70	-1,972.67	9,066.85	10,355.64	10,193.01	162.64	63.673		
6,100.00	5,897.08	3,550.00	3,681.90	28.35	140.00	130.23	-1,972.67	9,066.85	10,388.16	10,225.00	163.16	63.670		
6,200.00	5,995.98	3,550.00	3,681.90	28.63	140.00	130.73	-1,972.67	9,066.85	10,419.41	10,255.82	163.59	63.694		
6,300.00	6,095.33	3,550.00	3,681.90	28.87	140.00	131.20	-1,972.67	9,066.85	10,449.35	10,285.43	163.92	63.748		
6,400.00	6,195.01	3,550.00	3,681.90	29.06	140.00	131.65	-1,972.67	9,066.85	10,477.98	10,313.83	164.15	63.834		
6,500.00	6,294.91	3,550.00	3,681.90	29.20	140.00	132.07	-1,972.67	9,066.85	10,505.25	10,340.99	164.27	63.953		
6,600.00	6,394.89	3,550.00	3,681.90	29.30	140.00	18.74	-1,972.67	9,066.85	10,530.85	10,366.65	164.20	64.136		
6,700.00	6,494.28	3,550.00	3,681.90	29.34	140.00	18.32	-1,972.67	9,066.85	10,547.48	10,385.49	161.99	65.112		
6,800.00	6,591.26	3,550.00	3,681.90	29.31	140.00	18.20	-1,972.67	9,066.85	10,551.89	10,395.04	156.85	67.273		
6,900.00	6,683.95	3,550.00	3,681.90	29.23	140.00	18.40	-1,972.67	9,066.85	10,544.00	10,395.05	148.95	70.789		
7,000.00	6,770.55	3,550.00	3,681.90	29.09	140.00	18.93	-1,972.67	9,066.85	10,523.93	10,385.33	138.60	75.929		
7,100.00	6,849.36	3,550.00	3,681.90	28.92	140.00	19.82	-1,972.67	9,066.85	10,492.02	10,365.68	126.33	83.050		
7,200.00	6,918.86	3,550.00	3,681.90	28.73	140.00	21.17	-1,972.67	9,066.85	10,448.77	10,335.79	112.98	92.480		
7,300.00	6,977.70	3,550.00	3,681.90	28.54	140.00	23.10	-1,972.67	9,066.85	10,394.90	10,294.85	100.04	103.905		
7,400.00	7,027.98	3,550.00	3,681.90	28.35	140.00	24.08	-1,972.67	9,066.85	10,333.89	10,237.90	95.99	107.657		
7,500.00	7,070.01	3,550.00	3,681.90	28.19	140.00	27.20	-1,972.67	9,066.85	10,267.01	10,178.80	88.22	116.381		
7,600.00	7,099.01	3,550.00	3,681.90	28.06	140.00	31.68	-1,972.67	9,066.85	10,191.92	10,103.30	88.62	115.013		
7,700.00	7,114.42	3,550.00	3,681.90	27.97	140.00	38.27	-1,972.67	9,066.85	10,109.88	10,009.63	100.26	100.837		
7,800.00	7,117.13	3,550.00	3,681.90	28.00	140.00	43.59	-1,972.67	9,066.85	10,022.76	9,909.93	112.83	88.832		
7,900.00	7,117.44	3,550.00	3,681.90	28.26	140.00	43.59	-1,972.67	9,066.85	9,934.98	9,820.58	114.40	86.844		
8,000.00	7,117.75	3,550.00	3,681.90	28.94	140.00	43.59	-1,972.67	9,066.85	9,847.44	9,731.35	116.09	84.824		
8,100.00	7,118.06	3,550.00	3,681.90	30.16	140.00	43.59	-1,972.67	9,066.85	9,760.13	9,642.26	117.88	82.798		
8,200.00	7,118.37	3,550.00	3,681.90	31.76	140.00	43.59	-1,972.67	9,066.85	9,673.08	9,553.34	119.74	80.786		
8,300.00	7,118.68	3,550.00	3,681.90	33.58	140.00	43.59	-1,972.67	9,066.85	9,586.27	9,464.62	121.65	78.800		
8,400.00	7,118.99	3,550.00	3,681.90	35.53	140.00	43.59	-1,972.67	9,066.85	9,499.72	9,376.11	123.61	76.850		
8,500.00	7,119.30	3,550.00	3,681.90	37.56	140.00	43.59	-1,972.67	9,066.85	9,413.44	9,287.83	125.61	74.941		
8,600.00	7,119.61	3,550.00	3,681.90	39.66	140.00	43.59	-1,972.67	9,066.85	9,327.43	9,199.80	127.64	73.078		
8,700.00	7,119.92	3,550.00	3,681.90	41.80	140.00	43.59	-1,972.67	9,066.85	9,241.71	9,112.02	129.69	71.261		
8,800.00	7,120.23	3,550.00	3,681.90	43.99	140.00	43.59	-1,972.67	9,066.85	9,156.27	9,024.52	131.76	69.494		
8,900.00	7,120.54	3,550.00	3,681.90	46.22	140.00	43.59	-1,972.67	9,066.85	9,071.14	8,937.29	133.84	67.774		
9,000.00	7,120.85	3,550.00	3,681.90	48.47	140.00	43.59	-1,972.67	9,066.85	8,986.30	8,850.36	135.94	66.104		
9,100.00	7,121.16	3,550.00	3,681.90	50.75	140.00	43.59	-1,972.67	9,066.85	8,901.79	8,763.73	138.05	64.480		
9,200.00	7,121.47	3,550.00	3,681.90	53.05	140.00	43.59	-1,972.67	9,066.85	8,817.60	8,677.42	140.18	62.904		
9,300.00	7,121.78	3,550.00	3,681.90	55.37	140.00	43.59	-1,972.67	9,066.85	8,733.74	8,591.43	142.31	61.373		
9,400.00	7,122.09	3,550.00	3,681.90	57.71	140.00	43.59	-1,972.67	9,066.85	8,650.22	8,505.78	144.44	59.887		
9,500.00	7,122.40	3,550.00	3,681.90	60.06	140.00	43.59	-1,972.67	9,066.85	8,567.06	8,420.47	146.59	58.444		
9,600.00	7,122.71	3,550.00	3,681.90	62.43	140.00	43.59	-1,972.67	9,066.85	8,484.26	8,335.52	148.74	57.043		
9,700.00	7,123.02	3,550.00	3,681.90	64.80	140.00	43.59	-1,972.67	9,066.85	8,401.83	8,250.94	150.89	55.682		
9,800.00	7,123.33	3,550.00	3,681.90	67.19	140.00	43.59	-1,972.67	9,066.85	8,319.79	8,166.75	153.05	54.361		
9,900.00	7,123.65	3,550.00	3,681.90	69.59	140.00	43.59	-1,972.67	9,066.85	8,238.15	8,082.94	155.21	53.077		
10,000.00	7,123.96	3,550.00	3,681.90	71.99	140.00	43.59	-1,972.67	9,066.85	8,156.92	7,999.54	157.38	51.830		
10,100.00	7,124.27	3,550.00	3,681.90	74.40	140.00	43.59	-1,972.67	9,066.85	8,076.10	7,916.56	159.55	50.619		
10,200.00	7,124.58	3,550.00	3,681.90	76.82	140.00	43.59	-1,972.67	9,066.85	7,995.72	7,834.01	161.72	49.442		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Surface Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 241 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
10,300.00	7,124.89	3,550.00	3,681.90	79.25	140.00	43.59	-1,972.67	9,066.85	7,915.79	7,751.90	163.89	48.299		
10,400.00	7,125.20	3,550.00	3,681.90	81.68	140.00	43.59	-1,972.67	9,066.85	7,836.32	7,679.08	166.07	47.187		
10,500.00	7,125.51	3,550.00	3,681.90	84.12	140.00	43.59	-1,972.67	9,066.85	7,757.33	7,589.08	168.25	46.106		
10,600.00	7,125.82	3,550.00	3,681.90	86.56	140.00	43.59	-1,972.67	9,066.85	7,678.82	7,508.39	170.43	45.056		
10,700.00	7,126.13	3,550.00	3,681.90	89.01	140.00	43.59	-1,972.67	9,066.85	7,600.82	7,428.21	172.61	44.034		
10,800.00	7,126.44	3,550.00	3,681.90	91.46	140.00	43.59	-1,972.67	9,066.85	7,523.34	7,348.54	174.80	43.041		
10,900.00	7,126.75	3,550.00	3,681.90	93.91	140.00	43.59	-1,972.67	9,066.85	7,446.39	7,269.41	176.98	42.074		
11,000.00	7,127.06	3,550.00	3,681.90	96.37	140.00	43.59	-1,972.67	9,066.85	7,370.00	7,190.83	179.17	41.134		
11,100.00	7,127.37	3,550.00	3,681.90	98.83	140.00	43.59	-1,972.67	9,066.85	7,294.18	7,112.82	181.36	40.220		
11,200.00	7,127.68	3,550.00	3,681.90	101.30	140.00	43.59	-1,972.67	9,066.85	7,218.95	7,035.40	183.55	39.330		
11,300.00	7,127.99	3,550.00	3,681.90	103.77	140.00	43.59	-1,972.67	9,066.85	7,144.33	6,958.59	185.74	38.465		
11,400.00	7,128.30	3,550.00	3,681.90	106.24	140.00	43.59	-1,972.67	9,066.85	7,070.33	6,882.40	187.93	37.623		
11,500.00	7,128.61	3,550.00	3,681.90	108.71	140.00	43.59	-1,972.67	9,066.85	6,996.98	6,806.86	190.12	36.803		
11,600.00	7,128.92	3,550.00	3,681.90	111.19	140.00	43.59	-1,972.67	9,066.85	6,924.30	6,731.98	192.31	36.005		
11,700.00	7,129.23	3,550.00	3,681.90	113.66	140.00	43.59	-1,972.67	9,066.85	6,852.30	6,657.79	194.51	35.229		
11,800.00	7,129.54	3,550.00	3,681.90	116.14	140.00	43.59	-1,972.67	9,066.85	6,781.02	6,584.32	196.70	34.474		
11,900.00	7,129.85	3,550.00	3,681.90	118.62	140.00	43.59	-1,972.67	9,066.85	6,710.47	6,511.57	198.90	33.738		
12,000.00	7,130.16	3,550.00	3,681.90	121.11	140.00	43.59	-1,972.67	9,066.85	6,640.67	6,439.58	201.09	33.023		
12,100.00	7,130.47	3,550.00	3,681.90	123.59	140.00	43.59	-1,972.67	9,066.85	6,571.66	6,368.37	203.29	32.327		
12,200.00	7,130.78	3,550.00	3,681.90	126.08	140.00	43.59	-1,972.67	9,066.85	6,503.45	6,297.96	205.49	31.649		
12,300.00	7,131.09	3,550.00	3,681.90	128.57	140.00	43.59	-1,972.67	9,066.85	6,436.07	6,228.39	207.68	30.990		
12,400.00	7,131.40	3,550.00	3,681.90	131.06	140.00	43.59	-1,972.67	9,066.85	6,369.55	6,159.67	209.88	30.348		
12,500.00	7,131.71	3,550.00	3,681.90	133.55	140.00	43.59	-1,972.67	9,066.85	6,303.91	6,091.83	212.08	29.724		
12,600.00	7,132.02	3,550.00	3,681.90	136.04	140.00	43.59	-1,972.67	9,066.85	6,239.19	6,024.91	214.28	29.117		
12,700.00	7,132.33	3,550.00	3,681.90	138.54	140.00	43.59	-1,972.67	9,066.85	6,175.41	5,958.93	216.48	28.527		
12,800.00	7,132.64	3,550.00	3,681.90	141.03	140.00	43.59	-1,972.67	9,066.85	6,112.59	5,893.92	218.68	27.952		
12,900.00	7,132.95	3,550.00	3,681.90	143.53	140.00	43.59	-1,972.67	9,066.85	6,050.78	5,829.90	220.88	27.394		
13,000.00	7,133.26	3,550.00	3,681.90	146.02	140.00	43.59	-1,972.67	9,066.85	5,990.00	5,766.92	223.08	26.851		
13,100.00	7,133.57	3,550.00	3,681.90	148.52	140.00	43.59	-1,972.67	9,066.85	5,930.29	5,705.01	225.28	26.324		
13,200.00	7,133.88	3,550.00	3,681.90	151.02	140.00	43.59	-1,972.67	9,066.85	5,871.67	5,644.18	227.48	25.811		
13,300.00	7,134.19	3,550.00	3,681.90	153.52	140.00	43.59	-1,972.67	9,066.85	5,814.17	5,584.49	229.68	25.314		
13,400.00	7,134.50	3,550.00	3,681.90	156.02	140.00	43.59	-1,972.67	9,066.85	5,757.85	5,525.96	231.89	24.830		
13,500.00	7,134.81	3,550.00	3,681.90	158.52	140.00	43.59	-1,972.67	9,066.85	5,702.71	5,468.63	234.09	24.361		
13,600.00	7,135.12	3,550.00	3,681.90	161.03	140.00	43.59	-1,972.67	9,066.85	5,648.81	5,412.52	236.29	23.906		
13,700.00	7,135.43	3,550.00	3,681.90	163.53	140.00	43.59	-1,972.67	9,066.85	5,596.18	5,357.69	238.49	23.465		
13,800.00	7,135.74	3,550.00	3,681.90	166.03	140.00	43.59	-1,972.67	9,066.85	5,544.86	5,304.16	240.70	23.037		
13,900.00	7,136.05	3,550.00	3,681.90	168.54	140.00	43.59	-1,972.67	9,066.85	5,494.87	5,251.97	242.90	22.622		
14,000.00	7,136.36	3,550.00	3,681.90	171.05	140.00	43.59	-1,972.67	9,066.85	5,446.26	5,201.16	245.10	22.220		
14,100.00	7,136.67	3,550.00	3,681.90	173.54	140.00	43.59	-1,972.67	9,066.85	5,399.07	5,151.76	247.31	21.831		
14,200.00	7,136.98	3,550.00	3,681.90	176.05	140.00	43.59	-1,972.67	9,066.85	5,353.32	5,103.81	249.51	21.455		
14,300.00	7,137.29	3,550.00	3,681.90	178.56	140.00	43.59	-1,972.67	9,066.85	5,309.07	5,057.36	251.71	21.092		
14,400.00	7,137.60	3,550.00	3,681.90	181.07	140.00	43.59	-1,972.67	9,066.85	5,266.35	5,012.43	253.92	20.740		
14,500.00	7,137.91	3,550.00	3,681.90	183.58	140.00	43.59	-1,972.67	9,066.85	5,225.18	4,969.06	256.12	20.401		
14,600.00	7,138.22	3,550.00	3,681.90	186.09	140.00	43.59	-1,972.67	9,066.85	5,185.63	4,927.30	258.33	20.074		
14,700.00	7,138.53	3,550.00	3,681.90	188.59	140.00	43.59	-1,972.67	9,066.85	5,147.71	4,887.17	260.53	19.758		
14,800.00	7,138.84	3,550.00	3,681.90	191.10	140.00	43.59	-1,972.67	9,066.85	5,111.46	4,848.72	262.74	19.455		
14,900.00	7,139.15	3,550.00	3,681.90	193.61	140.00	43.59	-1,972.67	9,066.85	5,076.93	4,811.99	264.94	19.162		
15,000.00	7,139.46	3,550.00	3,681.90	196.13	140.00	43.59	-1,972.67	9,066.85	5,044.14	4,776.99	267.15	18.882		
15,100.00	7,139.77	3,550.00	3,681.90	198.64	140.00	43.59	-1,972.67	9,066.85	5,013.14	4,743.78	269.35	18.612		
15,200.00	7,140.08	3,550.00	3,681.90	201.15	140.00	43.59	-1,972.67	9,066.85	4,983.94	4,712.39	271.56	18.353		
15,300.00	7,140.39	3,550.00	3,681.90	203.66	140.00	43.59	-1,972.67	9,066.85	4,956.60	4,682.83	273.76	18.105		
15,400.00	7,140.70	3,550.00	3,681.90	206.17	140.00	43.59	-1,972.67	9,066.85	4,931.13	4,655.16	275.97	17.868		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 241 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	7,141.01	3,550.00	3,681.90	208.68	140.00	43.59	-1,972.67	9,066.85	4,907.56	4,629.39	278.17	17.642	
15,600.00	7,141.32	3,550.00	3,681.90	211.20	140.00	43.59	-1,972.67	9,066.85	4,885.93	4,605.55	280.38	17.426	
15,700.00	7,141.63	3,550.00	3,681.90	213.71	140.00	43.59	-1,972.67	9,066.85	4,866.26	4,583.67	282.59	17.220	
15,800.00	7,141.94	3,550.00	3,681.90	216.22	140.00	43.59	-1,972.67	9,066.85	4,848.57	4,563.78	284.79	17.025	
15,900.00	7,142.25	3,550.00	3,681.90	218.74	140.00	43.59	-1,972.67	9,066.85	4,832.89	4,545.89	287.00	16.839	
16,000.00	7,142.56	3,550.00	3,681.90	221.25	140.00	43.59	-1,972.67	9,066.85	4,819.23	4,530.03	289.21	16.664	
16,100.00	7,142.87	3,550.00	3,681.90	223.77	140.00	43.59	-1,972.67	9,066.85	4,807.61	4,516.20	291.41	16.498	
16,200.00	7,143.18	3,550.00	3,681.90	226.28	140.00	43.59	-1,972.67	9,066.85	4,798.05	4,504.43	293.62	16.341	
16,300.00	7,143.49	3,550.00	3,681.90	228.80	140.00	43.59	-1,972.67	9,066.85	4,790.56	4,494.74	295.82	16.194	
16,400.00	7,143.80	3,550.00	3,681.90	231.31	140.00	43.59	-1,972.67	9,066.85	4,785.15	4,487.12	298.03	16.056	
16,500.00	7,144.11	3,550.00	3,681.90	233.83	140.00	43.59	-1,972.67	9,066.85	4,781.82	4,481.58	300.24	15.927	
16,600.00	7,144.42	3,550.00	3,681.90	236.34	140.00	43.59	-1,972.67	9,066.85	4,780.58	4,478.14	302.44	15.806	
16,609.19	7,144.45	3,550.00	3,681.90	236.57	140.00	43.59	-1,972.67	9,066.85	4,780.57	4,477.57	303.00	15.777 CC	
16,700.00	7,144.73	3,550.00	3,681.90	238.86	140.00	43.59	-1,972.67	9,066.85	4,781.43	4,476.78	304.65	15.695 ES	
16,800.00	7,145.05	3,550.00	3,681.90	241.37	140.00	43.59	-1,972.67	9,066.85	4,784.38	4,477.52	306.86	15.591	
16,900.00	7,145.36	3,550.00	3,681.90	243.89	140.00	43.59	-1,972.67	9,066.85	4,789.41	4,480.34	309.07	15.496	
17,000.00	7,145.67	3,550.00	3,681.90	246.41	140.00	43.59	-1,972.67	9,066.85	4,796.52	4,485.25	311.27	15.409	
17,100.00	7,145.98	3,550.00	3,681.90	248.93	140.00	43.59	-1,972.67	9,066.85	4,805.70	4,492.22	313.48	15.330	
17,200.00	7,146.29	3,550.00	3,681.90	251.44	140.00	43.59	-1,972.67	9,066.85	4,816.94	4,501.25	315.69	15.259	
17,300.00	7,146.60	3,550.00	3,681.90	253.96	140.00	43.59	-1,972.67	9,066.85	4,830.23	4,512.33	317.89	15.194	
17,400.00	7,146.91	3,550.00	3,681.90	256.48	140.00	43.59	-1,972.67	9,066.85	4,845.54	4,525.44	320.10	15.137	
17,430.36	7,147.00	3,550.00	3,681.90	257.24	140.00	43.59	-1,972.67	9,066.85	4,850.59	4,529.81	320.77	15.122 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.00	45.97	0.00	0.00	75.88	1,891.70	7,519.32	7,753.76					
100.00	100.00	54.03	100.00	0.08	1.08	75.88	1,891.70	7,519.32	7,753.63	7,752.46	1.16	6,655.590		
127.49	127.49	81.52	127.49	0.15	1.63	75.88	1,891.70	7,519.32	7,753.63	7,751.85	1.78	4,364.597		
200.00	200.00	100.00	145.97	0.31	2.00	75.88	1,891.70	7,519.32	7,753.81	7,751.50	2.31	3,358.005		
300.00	300.00	100.00	145.97	0.53	2.00	75.88	1,891.70	7,519.32	7,755.16	7,752.62	2.53	3,060.658		
400.00	400.00	100.00	145.97	0.76	2.00	75.88	1,891.70	7,519.32	7,757.79	7,755.03	2.76	2,812.233		
500.00	500.00	100.00	145.97	0.98	2.00	75.88	1,891.70	7,519.32	7,761.70	7,758.72	2.98	2,601.672		
600.00	600.00	100.00	145.97	1.21	2.00	75.88	1,891.70	7,519.32	7,766.91	7,763.70	3.21	2,421.017		
700.00	700.00	100.00	145.97	1.43	2.00	75.88	1,891.70	7,519.32	7,773.39	7,769.96	3.43	2,264.392		
800.00	800.00	100.00	145.97	1.66	2.00	75.88	1,891.70	7,519.32	7,781.16	7,777.50	3.66	2,127.366		
900.00	900.00	100.00	145.97	1.88	2.00	75.88	1,891.70	7,519.32	7,790.20	7,786.32	3.88	2,006.535		
1,000.00	1,000.00	100.00	145.97	2.11	2.00	75.88	1,891.70	7,519.32	7,800.52	7,796.41	4.11	1,899.238		
1,100.00	1,099.98	100.00	145.97	2.33	2.00	99.26	1,891.70	7,519.32	7,812.38	7,808.05	4.33	1,804.164		
1,200.00	1,199.84	100.00	145.97	2.56	2.00	98.99	1,891.70	7,519.32	7,826.06	7,821.51	4.55	1,718.765		
1,300.00	1,299.45	100.00	145.97	2.79	2.00	98.68	1,891.70	7,519.32	7,841.53	7,836.75	4.78	1,639.337		
1,400.00	1,398.70	100.00	145.97	3.03	2.00	98.33	1,891.70	7,519.32	7,858.76	7,853.73	5.03	1,562.933		
1,500.00	1,497.47	100.00	145.97	3.30	2.00	97.95	1,891.70	7,519.32	7,877.72	7,872.42	5.30	1,487.205		
1,600.00	1,595.62	100.00	145.97	3.61	2.00	97.53	1,891.70	7,519.32	7,898.37	7,892.77	5.60	1,410.635		
1,700.00	1,693.06	100.00	145.97	3.95	2.00	97.08	1,891.70	7,519.32	7,920.68	7,914.73	5.94	1,332.620		
1,800.00	1,789.84	100.00	145.97	4.35	2.00	96.59	1,891.70	7,519.32	7,944.60	7,938.26	6.34	1,253.390		
1,900.00	1,885.30	100.00	145.97	4.80	2.00	96.19	1,891.70	7,519.32	7,970.08	7,963.29	6.79	1,173.987		
2,000.00	1,980.64	100.00	145.97	5.29	2.00	96.19	1,891.70	7,519.32	7,996.83	7,989.56	7.27	1,099.300		
2,100.00	2,075.99	100.00	145.97	5.80	2.00	96.19	1,891.70	7,519.32	8,024.75	8,016.97	7.78	1,031.321		
2,200.00	2,171.34	100.00	145.97	6.33	2.00	96.19	1,891.70	7,519.32	8,053.81	8,045.51	8.30	969.928		
2,300.00	2,266.68	100.00	145.97	6.87	2.00	96.19	1,891.70	7,519.32	8,084.01	8,075.17	8.84	914.660		
2,400.00	2,362.03	100.00	145.97	7.41	2.00	96.19	1,891.70	7,519.32	8,115.32	8,105.94	9.38	864.932		
2,500.00	2,457.38	100.00	145.97	7.97	2.00	96.19	1,891.70	7,519.32	8,147.74	8,137.81	9.93	820.139		
2,600.00	2,552.72	100.00	145.97	8.53	2.00	96.19	1,891.70	7,519.32	8,181.25	8,170.76	10.49	779.709		
2,700.00	2,648.07	100.00	145.97	9.10	2.00	96.19	1,891.70	7,519.32	8,215.85	8,204.79	11.06	743.124		
2,800.00	2,743.42	100.00	145.97	9.67	2.00	96.19	1,891.70	7,519.32	8,251.51	8,239.89	11.62	709.924		
2,900.00	2,838.77	100.00	145.97	10.24	2.00	96.19	1,891.70	7,519.32	8,288.23	8,276.03	12.19	679.710		
3,000.00	2,934.11	100.00	145.97	10.82	2.00	96.19	1,891.70	7,519.32	8,325.98	8,313.21	12.77	652.130		
3,100.00	3,029.46	100.00	145.97	11.40	2.00	96.19	1,891.70	7,519.32	8,364.76	8,351.42	13.34	626.884		
3,200.00	3,124.81	100.00	145.97	11.98	2.00	96.19	1,891.70	7,519.32	8,404.55	8,390.63	13.92	603.709		
3,300.00	3,220.15	100.00	145.97	12.56	2.00	96.19	1,891.70	7,519.32	8,445.34	8,430.84	14.50	582.378		
3,400.00	3,315.50	100.00	145.97	13.14	2.00	96.19	1,891.70	7,519.32	8,487.11	8,472.03	15.08	562.695		
3,500.00	3,410.85	100.00	145.97	13.73	2.00	96.19	1,891.70	7,519.32	8,529.85	8,514.18	15.67	544.487		
3,600.00	3,506.19	100.00	145.97	14.32	2.00	96.19	1,891.70	7,519.32	8,573.54	8,557.29	16.25	527.605		
3,700.00	3,601.54	100.00	145.97	14.91	2.00	96.19	1,891.70	7,519.32	8,618.17	8,601.33	16.84	511.918		
3,800.00	3,696.89	100.00	145.97	15.50	2.00	96.19	1,891.70	7,519.32	8,663.72	8,646.30	17.42	497.311		
3,900.00	3,792.24	100.00	145.97	16.09	2.00	96.19	1,891.70	7,519.32	8,710.18	8,692.18	18.01	483.684		
4,000.00	3,887.58	100.00	145.97	16.68	2.00	96.19	1,891.70	7,519.32	8,757.54	8,738.95	18.60	470.945		
4,100.00	3,982.93	100.00	145.97	17.27	2.00	96.19	1,891.70	7,519.32	8,805.78	8,786.60	19.18	459.018		
4,200.00	4,078.28	100.00	145.97	17.86	2.00	96.19	1,891.70	7,519.32	8,854.89	8,835.12	19.77	447.830		
4,300.00	4,173.62	100.00	145.97	18.45	2.00	96.19	1,891.70	7,519.32	8,904.85	8,884.49	20.36	437.319		
4,400.00	4,268.97	100.00	145.97	19.05	2.00	96.19	1,891.70	7,519.32	8,955.65	8,934.70	20.95	427.430		
4,500.00	4,364.32	100.00	145.97	19.64	2.00	96.19	1,891.70	7,519.32	9,007.27	8,985.73	21.54	418.112		
4,600.00	4,459.67	100.00	145.97	20.23	2.00	96.19	1,891.70	7,519.32	9,059.70	9,037.57	22.13	409.320		
4,700.00	4,555.01	100.00	145.97	20.83	2.00	96.19	1,891.70	7,519.32	9,112.93	9,090.20	22.72	401.014		
4,800.00	4,650.36	100.00	145.97	21.42	2.00	96.19	1,891.70	7,519.32	9,166.93	9,143.62	23.32	393.156		
4,900.00	4,745.71	100.00	145.97	22.02	2.00	96.19	1,891.70	7,519.32	9,221.71	9,197.80	23.91	385.715		
5,000.00	4,841.05	100.00	145.97	22.61	2.00	96.19	1,891.70	7,519.32	9,277.24	9,252.74	24.50	378.659		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,936.40	100.00	145.97	23.21	2.00	96.19	1,891.70	7,519.32	9,333.51	9,308.42	25.09	371.962	
5,200.00	5,031.75	100.00	145.97	23.80	2.00	96.19	1,891.70	7,519.32	9,390.51	9,364.83	25.69	365.599	
5,300.00	5,127.09	100.00	145.97	24.40	2.00	96.19	1,891.70	7,519.32	9,448.23	9,421.95	26.28	359.546	
5,400.00	5,222.44	100.00	145.97	25.00	2.00	96.19	1,891.70	7,519.32	9,506.64	9,479.77	26.87	353.784	
5,500.00	5,317.79	100.00	145.97	25.59	2.00	96.19	1,891.70	7,519.32	9,565.75	9,538.28	27.46	348.294	
5,600.00	5,413.14	100.00	145.97	26.19	2.00	96.19	1,891.70	7,519.32	9,625.53	9,597.47	28.06	343.057	
5,700.00	5,508.48	100.00	145.97	26.78	2.00	96.21	1,891.70	7,519.32	9,685.97	9,657.32	28.65	338.079	
5,800.00	5,604.35	100.00	145.97	27.24	2.00	97.73	1,891.70	7,519.32	9,746.90	9,717.86	29.04	335.640	
5,900.00	5,701.15	100.00	145.97	27.65	2.00	99.26	1,891.70	7,519.32	9,808.10	9,778.73	29.37	333.910	
6,000.00	5,798.77	100.00	145.97	28.02	2.00	100.80	1,891.70	7,519.32	9,869.49	9,839.84	29.65	332.869	
6,100.00	5,897.08	100.00	145.97	28.35	2.00	102.32	1,891.70	7,519.32	9,931.00	9,901.13	29.87	332.499	
6,200.00	5,995.98	100.00	145.97	28.63	2.00	103.85	1,891.70	7,519.32	9,992.55	9,962.52	30.03	332.786	
6,300.00	6,095.33	100.00	145.97	28.87	2.00	105.36	1,891.70	7,519.32	10,054.06	10,023.93	30.13	333.716	
6,400.00	6,195.01	100.00	145.97	29.06	2.00	106.85	1,891.70	7,519.32	10,115.46	10,085.29	30.17	335.277	
6,500.00	6,294.91	100.00	145.97	29.20	2.00	108.33	1,891.70	7,519.32	10,176.68	10,146.52	30.16	337.462	
6,600.00	6,394.89	100.00	145.97	29.30	2.00	-3.95	1,891.70	7,519.32	10,237.35	10,207.27	30.08	340.371	
6,700.00	6,494.28	100.00	145.97	29.34	2.00	-3.62	1,891.70	7,519.32	10,290.21	10,260.61	29.59	347.716	
6,800.00	6,591.26	100.00	145.97	29.31	2.00	-3.39	1,891.70	7,519.32	10,331.56	10,303.01	28.55	361.849	
6,900.00	6,683.95	100.00	145.97	29.23	2.00	-3.25	1,891.70	7,519.32	10,360.74	10,333.76	26.98	384.002	
7,000.00	6,770.55	100.00	145.97	29.09	2.00	-3.18	1,891.70	7,519.32	10,377.28	10,352.36	24.92	416.345	
7,100.00	6,849.36	100.00	145.97	28.92	2.00	-3.16	1,891.70	7,519.32	10,380.92	10,358.48	22.45	462.480	
7,200.00	6,918.86	100.00	145.97	28.73	2.00	-3.20	1,891.70	7,519.32	10,371.61	10,351.98	19.63	528.286	
7,300.00	6,977.70	100.00	145.97	28.54	2.00	-3.31	1,891.70	7,519.32	10,349.48	10,332.88	16.61	623.118	
7,400.00	7,027.98	100.00	145.97	28.35	2.00	-3.37	1,891.70	7,519.32	10,318.36	10,302.88	15.48	666.356	
7,500.00	7,070.01	100.00	145.97	28.19	2.00	-3.57	1,891.70	7,519.32	10,279.45	10,266.86	12.59	816.423	
7,600.00	7,099.01	100.00	145.97	28.06	2.00	-3.88	1,891.70	7,519.32	10,228.87	10,218.61	10.26	996.981	
7,700.00	7,114.42	100.00	145.97	27.97	2.00	-4.32	1,891.70	7,519.32	10,167.46	10,158.27	9.19	1,106.805	
7,800.00	7,117.13	100.00	145.97	28.00	2.00	-4.68	1,891.70	7,519.32	10,097.01	10,087.31	9.70	1,040.987	
7,900.00	7,117.44	100.00	145.97	28.26	2.00	-4.68	1,891.70	7,519.32	10,025.35	10,014.98	10.37	966.411	
8,000.00	7,117.75	100.00	145.97	28.94	2.00	-4.68	1,891.70	7,519.32	9,954.18	9,943.12	11.06	900.053	
8,100.00	7,118.06	100.00	145.97	30.16	2.00	-4.68	1,891.70	7,519.32	9,883.50	9,871.74	11.75	840.815	
8,200.00	7,118.37	100.00	145.97	31.76	2.00	-4.68	1,891.70	7,519.32	9,813.33	9,800.88	12.46	787.740	
8,300.00	7,118.68	100.00	145.97	33.58	2.00	-4.68	1,891.70	7,519.32	9,743.69	9,730.52	13.17	740.007	
8,400.00	7,118.99	100.00	145.97	35.53	2.00	-4.68	1,891.70	7,519.32	9,674.58	9,660.70	13.88	696.916	
8,500.00	7,119.30	100.00	145.97	37.56	2.00	-4.68	1,891.70	7,519.32	9,606.01	9,591.41	14.60	657.872	
8,600.00	7,119.61	100.00	145.97	39.66	2.00	-4.68	1,891.70	7,519.32	9,538.00	9,522.67	15.33	622.369	
8,700.00	7,119.92	100.00	145.97	41.80	2.00	-4.68	1,891.70	7,519.32	9,470.55	9,454.50	16.05	589.975	
8,800.00	7,120.23	100.00	145.97	43.99	2.00	-4.68	1,891.70	7,519.32	9,403.68	9,386.90	16.78	560.322	
8,900.00	7,120.54	100.00	145.97	46.22	2.00	-4.68	1,891.70	7,519.32	9,337.41	9,319.90	17.52	533.096	
9,000.00	7,120.85	100.00	145.97	48.47	2.00	-4.68	1,891.70	7,519.32	9,271.74	9,253.49	18.25	508.025	
9,100.00	7,121.16	100.00	145.97	50.75	2.00	-4.68	1,891.70	7,519.32	9,206.69	9,187.70	18.99	484.875	
9,200.00	7,121.47	100.00	145.97	53.05	2.00	-4.68	1,891.70	7,519.32	9,142.27	9,122.54	19.73	463.445	
9,300.00	7,121.78	100.00	145.97	55.37	2.00	-4.68	1,891.70	7,519.32	9,078.50	9,058.03	20.47	443.560	
9,400.00	7,122.09	100.00	145.97	57.71	2.00	-4.68	1,891.70	7,519.32	9,015.38	8,994.17	21.21	425.065	
9,500.00	7,122.40	100.00	145.97	60.06	2.00	-4.68	1,891.70	7,519.32	8,952.93	8,930.98	21.95	407.827	
9,600.00	7,122.71	100.00	145.97	62.43	2.00	-4.68	1,891.70	7,519.32	8,891.17	8,868.48	22.70	391.729	
9,700.00	7,123.02	100.00	145.97	64.80	2.00	-4.68	1,891.70	7,519.32	8,830.12	8,806.67	23.44	376.665	
9,800.00	7,123.33	100.00	145.97	67.19	2.00	-4.68	1,891.70	7,519.32	8,769.77	8,745.58	24.19	362.546	
9,900.00	7,123.65	100.00	145.97	69.59	2.00	-4.68	1,891.70	7,519.32	8,710.16	8,685.22	24.94	349.289	
10,000.00	7,123.96	100.00	145.97	71.99	2.00	-4.68	1,891.70	7,519.32	8,651.29	8,625.60	25.69	336.822	
10,100.00	7,124.27	100.00	145.97	74.40	2.00	-4.68	1,891.70	7,519.32	8,593.18	8,566.75	26.43	325.081	
10,200.00	7,124.58	100.00	145.97	76.82	2.00	-4.68	1,891.70	7,519.32	8,535.85	8,508.67	27.18	314.008	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design		NEBU 604 Pad - NEBU 252 - OH - OH											Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	100.00	145.97	79.25	2.00	-4.68	1,891.70	7,519.32	8,479.31	8,451.38	27.93	303.550		
10,400.00	7,125.20	100.00	145.97	81.68	2.00	-4.68	1,891.70	7,519.32	8,423.58	8,394.89	28.68	293.662		
10,500.00	7,125.51	100.00	145.97	84.12	2.00	-4.68	1,891.70	7,519.32	8,368.67	8,339.23	29.44	284.302		
10,600.00	7,125.82	100.00	145.97	86.56	2.00	-4.68	1,891.70	7,519.32	8,314.60	8,284.41	30.19	275.431		
10,700.00	7,126.13	100.00	145.97	89.01	2.00	-4.68	1,891.70	7,519.32	8,261.39	8,230.45	30.94	267.014		
10,800.00	7,126.44	100.00	145.97	91.46	2.00	-4.68	1,891.70	7,519.32	8,209.05	8,177.36	31.69	259.022		
10,900.00	7,126.75	100.00	145.97	93.91	2.00	-4.68	1,891.70	7,519.32	8,157.60	8,125.16	32.45	251.424		
11,000.00	7,127.06	100.00	145.97	96.37	2.00	-4.68	1,891.70	7,519.32	8,107.06	8,073.86	33.20	244.196		
11,100.00	7,127.37	100.00	145.97	98.83	2.00	-4.68	1,891.70	7,519.32	8,057.44	8,023.49	33.95	237.314		
11,200.00	7,127.68	100.00	145.97	101.30	2.00	-4.68	1,891.70	7,519.32	8,008.77	7,974.06	34.71	230.755		
11,300.00	7,127.99	100.00	145.97	103.77	2.00	-4.68	1,891.70	7,519.32	7,961.05	7,925.59	35.46	224.501		
11,400.00	7,128.30	100.00	145.97	106.24	2.00	-4.68	1,891.70	7,519.32	7,914.31	7,878.09	36.22	218.533		
11,500.00	7,128.61	100.00	145.97	108.71	2.00	-4.68	1,891.70	7,519.32	7,868.56	7,831.59	36.97	212.833		
11,600.00	7,128.92	100.00	145.97	111.19	2.00	-4.68	1,891.70	7,519.32	7,823.82	7,786.10	37.73	207.387		
11,700.00	7,129.23	100.00	145.97	113.66	2.00	-4.68	1,891.70	7,519.32	7,780.11	7,741.63	38.48	202.181		
11,800.00	7,129.54	100.00	145.97	116.14	2.00	-4.68	1,891.70	7,519.32	7,737.45	7,698.21	39.24	197.200		
11,900.00	7,129.85	100.00	145.97	118.62	2.00	-4.68	1,891.70	7,519.32	7,695.85	7,655.86	39.99	192.433		
12,000.00	7,130.16	100.00	145.97	121.11	2.00	-4.68	1,891.70	7,519.32	7,655.33	7,614.58	40.75	187.869		
12,100.00	7,130.47	100.00	145.97	123.59	2.00	-4.68	1,891.70	7,519.32	7,615.90	7,574.40	41.50	183.496		
12,200.00	7,130.78	100.00	145.97	126.08	2.00	-4.68	1,891.70	7,519.32	7,577.60	7,535.33	42.26	179.306		
12,300.00	7,131.09	100.00	145.97	128.57	2.00	-4.68	1,891.70	7,519.32	7,540.42	7,497.40	43.02	175.289		
12,400.00	7,131.40	100.00	145.97	131.06	2.00	-4.68	1,891.70	7,519.32	7,504.39	7,460.62	43.77	171.436		
12,500.00	7,131.71	100.00	145.97	133.55	2.00	-4.68	1,891.70	7,519.32	7,469.53	7,425.00	44.53	167.739		
12,600.00	7,132.02	100.00	145.97	136.04	2.00	-4.68	1,891.70	7,519.32	7,435.85	7,390.56	45.29	164.192		
12,700.00	7,132.33	100.00	145.97	138.54	2.00	-4.68	1,891.70	7,519.32	7,403.36	7,357.32	46.04	160.787		
12,800.00	7,132.64	100.00	145.97	141.03	2.00	-4.68	1,891.70	7,519.32	7,372.09	7,325.29	46.80	157.518		
12,900.00	7,132.95	100.00	145.97	143.53	2.00	-4.68	1,891.70	7,519.32	7,342.05	7,294.49	47.56	154.378		
13,000.00	7,133.26	100.00	145.97	146.02	2.00	-4.68	1,891.70	7,519.32	7,313.25	7,264.93	48.32	151.362		
13,100.00	7,133.57	100.00	145.97	148.52	2.00	-4.68	1,891.70	7,519.32	7,285.71	7,236.64	49.07	148.464		
13,200.00	7,133.88	100.00	145.97	151.02	2.00	-4.68	1,891.70	7,519.32	7,259.45	7,209.62	49.83	145.680		
13,300.00	7,134.19	100.00	145.97	153.52	2.00	-4.68	1,891.70	7,519.32	7,234.47	7,183.88	50.59	143.005		
13,400.00	7,134.50	100.00	145.97	156.02	2.00	-4.68	1,891.70	7,519.32	7,210.79	7,159.44	51.35	140.433		
13,500.00	7,134.81	100.00	145.97	158.52	2.00	-4.68	1,891.70	7,519.32	7,188.42	7,136.32	52.10	137.961		
13,600.00	7,135.12	100.00	145.97	161.03	2.00	-4.68	1,891.70	7,519.32	7,167.38	7,114.52	52.86	135.585		
13,700.00	7,135.43	100.00	145.97	163.53	2.00	-4.68	1,891.70	7,519.32	7,147.68	7,094.06	53.62	133.301		
13,800.00	7,135.74	100.00	145.97	166.03	2.00	-4.68	1,891.70	7,519.32	7,129.33	7,074.95	54.38	131.105		
13,900.00	7,136.05	100.00	145.97	168.54	2.00	-4.68	1,891.70	7,519.32	7,112.33	7,057.20	55.14	128.994		
14,000.00	7,136.36	100.00	145.97	171.04	2.00	-4.68	1,891.70	7,519.32	7,096.71	7,040.81	55.90	126.964		
14,100.00	7,136.67	100.00	145.97	173.55	2.00	-4.68	1,891.70	7,519.32	7,082.46	7,025.80	56.65	125.013		
14,200.00	7,136.98	100.00	145.97	176.05	2.00	-4.68	1,891.70	7,519.32	7,069.59	7,012.18	57.41	123.138		
14,300.00	7,137.29	100.00	145.97	178.56	2.00	-4.68	1,891.70	7,519.32	7,058.13	6,999.95	58.17	121.335		
14,400.00	7,137.60	100.00	145.97	181.07	2.00	-4.68	1,891.70	7,519.32	7,048.06	6,989.13	58.93	119.602		
14,500.00	7,137.91	100.00	145.97	183.58	2.00	-4.68	1,891.70	7,519.32	7,039.39	6,979.71	59.69	117.937		
14,600.00	7,138.22	100.00	145.97	186.09	2.00	-4.68	1,891.70	7,519.32	7,032.14	6,971.70	60.45	116.337		
14,700.00	7,138.53	100.00	145.97	188.59	2.00	-4.68	1,891.70	7,519.32	7,026.31	6,965.10	61.21	114.799		
14,800.00	7,138.84	100.00	145.97	191.10	2.00	-4.68	1,891.70	7,519.32	7,021.89	6,959.93	61.96	113.322		
14,900.00	7,139.15	100.00	145.97	193.61	2.00	-4.68	1,891.70	7,519.32	7,018.90	6,956.17	62.72	111.903		
15,000.00	7,139.46	100.00	145.97	196.13	2.00	-4.68	1,891.70	7,519.32	7,017.33	6,953.84	63.48	110.541		
15,060.20	7,139.65	100.00	145.97	197.64	2.00	-4.68	1,891.70	7,519.32	7,017.07	6,953.13	63.94	109.747 CC		
15,100.00	7,139.77	100.00	145.97	198.64	2.00	-4.68	1,891.70	7,519.32	7,017.18	6,952.94	64.24	109.233 ES		
15,200.00	7,140.08	100.00	145.97	201.15	2.00	-4.68	1,891.70	7,519.32	7,018.46	6,953.46	65.00	107.977		
15,300.00	7,140.39	100.00	145.97	203.66	2.00	-4.68	1,891.70	7,519.32	7,021.16	6,955.41	65.76	106.772		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252 - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
15,400.00	7,140.70	100.00	145.97	206.17	2.00	-4.68	1,891.70	7,519.32	7,025.29	6,958.77	66.52	105.616		
15,500.00	7,141.01	100.00	145.97	208.68	2.00	-4.68	1,891.70	7,519.32	7,030.84	6,963.56	67.28	104.506		
15,600.00	7,141.32	100.00	145.97	211.20	2.00	-4.68	1,891.70	7,519.32	7,037.80	6,969.76	68.04	103.443		
15,700.00	7,141.63	100.00	145.97	213.71	2.00	-4.68	1,891.70	7,519.32	7,046.18	6,977.38	68.79	102.423		
15,800.00	7,141.94	100.00	145.97	216.22	2.00	-4.68	1,891.70	7,519.32	7,055.96	6,986.40	69.55	101.445		
15,900.00	7,142.25	100.00	145.97	218.74	2.00	-4.68	1,891.70	7,519.32	7,067.14	6,996.83	70.31	100.509		
16,000.00	7,142.56	100.00	145.97	221.25	2.00	-4.68	1,891.70	7,519.32	7,079.72	7,008.65	71.07	99.612		
16,100.00	7,142.87	100.00	145.97	223.77	2.00	-4.68	1,891.70	7,519.32	7,093.69	7,021.86	71.83	98.754		
16,200.00	7,143.18	100.00	145.97	226.28	2.00	-4.68	1,891.70	7,519.32	7,109.04	7,036.44	72.59	97.932		
16,300.00	7,143.49	100.00	145.97	228.80	2.00	-4.68	1,891.70	7,519.32	7,125.75	7,052.40	73.35	97.146		
16,400.00	7,143.80	100.00	145.97	231.31	2.00	-4.68	1,891.70	7,519.32	7,143.83	7,069.72	74.11	96.395		
16,500.00	7,144.11	100.00	145.97	233.83	2.00	-4.68	1,891.70	7,519.32	7,163.26	7,088.39	74.87	95.676		
16,600.00	7,144.42	100.00	145.97	236.34	2.00	-4.68	1,891.70	7,519.32	7,184.03	7,108.40	75.63	94.990		
16,700.00	7,144.73	100.00	145.97	238.86	2.00	-4.68	1,891.70	7,519.32	7,206.12	7,129.73	76.39	94.335		
16,800.00	7,145.05	100.00	145.97	241.37	2.00	-4.68	1,891.70	7,519.32	7,229.53	7,152.39	77.15	93.710		
16,900.00	7,145.36	100.00	145.97	243.89	2.00	-4.68	1,891.70	7,519.32	7,254.25	7,176.34	77.91	93.113		
17,000.00	7,145.67	100.00	145.97	246.41	2.00	-4.68	1,891.70	7,519.32	7,280.25	7,201.59	78.67	92.545		
17,100.00	7,145.98	100.00	145.97	248.93	2.00	-4.68	1,891.70	7,519.32	7,307.53	7,228.11	79.43	92.003		
17,200.00	7,146.29	100.00	145.97	251.44	2.00	-4.68	1,891.70	7,519.32	7,336.08	7,255.89	80.19	91.488		
17,300.00	7,146.60	100.00	145.97	253.96	2.00	-4.68	1,891.70	7,519.32	7,365.86	7,284.92	80.95	90.997		
17,400.00	7,146.91	100.00	145.97	256.48	2.00	-4.68	1,891.70	7,519.32	7,396.89	7,315.18	81.71	90.531		
17,430.36	7,147.00	100.00	145.97	257.24	2.00	-4.68	1,891.70	7,519.32	7,406.55	7,324.61	81.94	90.394 SF		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252H - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	46.94	0.00	0.00	75.88	1,891.63	7,519.32	7,753.75						
100.00	100.00	53.06	100.00	0.08	1.06	75.88	1,891.63	7,519.32	7,753.61	7,752.46	1.15	6,768.274			
128.99	128.99	82.05	128.99	0.15	1.64	75.88	1,891.63	7,519.32	7,753.61	7,751.82	1.79	4,330.615			
200.00	200.00	100.00	146.94	0.31	2.00	75.88	1,891.63	7,519.32	7,753.79	7,751.48	2.31	3,357.995			
300.00	300.00	100.00	146.94	0.53	2.00	75.88	1,891.63	7,519.32	7,755.12	7,752.58	2.53	3,060.644			
400.00	400.00	100.00	146.94	0.76	2.00	75.88	1,891.63	7,519.32	7,757.74	7,754.98	2.76	2,812.215			
500.00	500.00	100.00	146.94	0.98	2.00	75.88	1,891.63	7,519.32	7,761.64	7,758.66	2.98	2,601.652			
600.00	600.00	100.00	146.94	1.21	2.00	75.88	1,891.63	7,519.32	7,766.83	7,763.63	3.21	2,420.994			
700.00	700.00	100.00	146.94	1.43	2.00	75.88	1,891.63	7,519.32	7,773.31	7,769.87	3.43	2,264.367			
800.00	800.00	100.00	146.94	1.66	2.00	75.88	1,891.63	7,519.32	7,781.06	7,777.40	3.66	2,127.339			
900.00	900.00	100.00	146.94	1.88	2.00	75.88	1,891.63	7,519.32	7,790.09	7,786.21	3.88	2,006.506			
1,000.00	1,000.00	100.00	146.94	2.11	2.00	75.88	1,891.63	7,519.32	7,800.39	7,796.29	4.11	1,899.208			
1,100.00	1,099.98	100.00	146.94	2.33	2.00	99.26	1,891.63	7,519.32	7,812.25	7,807.92	4.33	1,804.133			
1,200.00	1,199.84	100.00	146.94	2.56	2.00	98.99	1,891.63	7,519.32	7,825.91	7,821.36	4.55	1,718.732			
1,300.00	1,299.45	100.00	146.94	2.79	2.00	98.68	1,891.63	7,519.32	7,841.37	7,836.59	4.78	1,639.304			
1,400.00	1,398.70	100.00	146.94	3.03	2.00	98.33	1,891.63	7,519.32	7,858.59	7,853.56	5.03	1,562.900			
1,500.00	1,497.47	100.00	146.94	3.30	2.00	97.95	1,891.63	7,519.32	7,877.54	7,872.24	5.30	1,487.171			
1,600.00	1,595.62	100.00	146.94	3.61	2.00	97.53	1,891.63	7,519.32	7,898.18	7,892.58	5.60	1,410.601			
1,700.00	1,593.06	100.00	146.94	3.95	2.00	97.08	1,891.63	7,519.32	7,920.47	7,914.53	5.94	1,332.587			
1,800.00	1,789.64	100.00	146.94	4.35	2.00	96.59	1,891.63	7,519.32	7,944.38	7,938.04	6.34	1,253.357			
1,900.00	1,885.30	100.00	146.94	4.80	2.00	96.19	1,891.63	7,519.32	7,969.85	7,963.06	6.79	1,173.955			
2,000.00	1,980.64	100.00	146.94	5.29	2.00	96.19	1,891.63	7,519.32	7,996.60	7,989.32	7.27	1,099.269			
2,100.00	2,075.99	100.00	146.94	5.80	2.00	96.19	1,891.63	7,519.32	8,024.50	8,016.72	7.78	1,031.291			
2,200.00	2,171.34	100.00	146.94	6.33	2.00	96.19	1,891.63	7,519.32	8,053.55	8,045.25	8.30	969.899			
2,300.00	2,266.68	100.00	146.94	6.87	2.00	96.19	1,891.63	7,519.32	8,083.74	8,074.90	8.84	914.632			
2,400.00	2,362.03	100.00	146.94	7.41	2.00	96.19	1,891.63	7,519.32	8,115.04	8,105.66	9.38	864.904			
2,500.00	2,457.38	100.00	146.94	7.97	2.00	96.19	1,891.63	7,519.32	8,147.45	8,137.52	9.93	820.112			
2,600.00	2,552.72	100.00	146.94	8.53	2.00	96.19	1,891.63	7,519.32	8,180.96	8,170.46	10.49	779.682			
2,700.00	2,648.07	100.00	146.94	9.10	2.00	96.19	1,891.63	7,519.32	8,215.54	8,204.49	11.06	743.098			
2,800.00	2,743.42	100.00	146.94	9.67	2.00	96.19	1,891.63	7,519.32	8,251.19	8,239.57	11.62	709.899			
2,900.00	2,838.77	100.00	146.94	10.24	2.00	96.19	1,891.63	7,519.32	8,287.90	8,275.71	12.19	679.685			
3,000.00	2,934.11	100.00	146.94	10.82	2.00	96.19	1,891.63	7,519.32	8,325.64	8,312.88	12.77	652.106			
3,100.00	3,029.46	100.00	146.94	11.40	2.00	96.19	1,891.63	7,519.32	8,364.41	8,351.07	13.34	626.860			
3,200.00	3,124.81	100.00	146.94	11.98	2.00	96.19	1,891.63	7,519.32	8,404.20	8,390.27	13.92	603.685			
3,300.00	3,220.15	100.00	146.94	12.56	2.00	96.19	1,891.63	7,519.32	8,444.97	8,430.47	14.50	582.355			
3,400.00	3,315.50	100.00	146.94	13.14	2.00	96.19	1,891.63	7,519.32	8,486.74	8,471.65	15.08	562.671			
3,500.00	3,410.85	100.00	146.94	13.73	2.00	96.19	1,891.63	7,519.32	8,529.46	8,513.80	15.67	544.464			
3,600.00	3,506.19	100.00	146.94	14.32	2.00	96.19	1,891.63	7,519.32	8,573.15	8,556.90	16.25	527.582			
3,700.00	3,601.54	100.00	146.94	14.91	2.00	96.19	1,891.63	7,519.32	8,617.77	8,600.93	16.83	511.896			
3,800.00	3,696.89	100.00	146.94	15.50	2.00	96.19	1,891.63	7,519.32	8,663.31	8,645.89	17.42	497.290			
3,900.00	3,792.24	100.00	146.94	16.09	2.00	96.19	1,891.63	7,519.32	8,709.77	8,691.76	18.01	483.662			
4,000.00	3,887.58	100.00	146.94	16.68	2.00	96.19	1,891.63	7,519.32	8,757.12	8,738.52	18.60	470.924			
4,100.00	3,982.93	100.00	146.94	17.27	2.00	96.19	1,891.63	7,519.32	8,805.35	8,786.17	19.18	458.997			
4,200.00	4,078.28	100.00	146.94	17.86	2.00	96.19	1,891.63	7,519.32	8,854.45	8,834.68	19.77	447.809			
4,300.00	4,173.62	100.00	146.94	18.45	2.00	96.19	1,891.63	7,519.32	8,904.40	8,884.04	20.36	437.299			
4,400.00	4,268.97	100.00	146.94	19.05	2.00	96.19	1,891.63	7,519.32	8,955.19	8,934.24	20.95	427.410			
4,500.00	4,364.32	100.00	146.94	19.64	2.00	96.19	1,891.63	7,519.32	9,006.81	8,985.26	21.54	418.092			
4,600.00	4,459.67	100.00	146.94	20.23	2.00	96.19	1,891.63	7,519.32	9,059.23	9,037.10	22.13	409.300			
4,700.00	4,555.01	100.00	146.94	20.83	2.00	96.19	1,891.63	7,519.32	9,112.45	9,089.72	22.72	400.994			
4,800.00	4,650.36	100.00	146.94	21.42	2.00	96.19	1,891.63	7,519.32	9,166.45	9,143.13	23.32	393.137			
4,900.00	4,745.71	100.00	146.94	22.02	2.00	96.19	1,891.63	7,519.32	9,221.22	9,197.31	23.91	385.696			
5,000.00	4,841.05	100.00	146.94	22.61	2.00	96.19	1,891.63	7,519.32	9,276.74	9,252.24	24.50	378.640			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,936.40	100.00	146.94	23.21	2.00	96.19	1,891.63	7,519.32	9,333.01	9,307.92	25.09	371.943	
5,200.00	5,031.75	100.00	146.94	23.80	2.00	96.19	1,891.63	7,519.32	9,390.00	9,364.32	25.69	365.580	
5,300.00	5,127.09	100.00	146.94	24.40	2.00	96.19	1,891.63	7,519.32	9,447.71	9,421.43	26.28	359.528	
5,400.00	5,222.44	100.00	146.94	25.00	2.00	96.19	1,891.63	7,519.32	9,506.12	9,479.25	26.87	353.766	
5,500.00	5,317.79	100.00	146.94	25.59	2.00	96.19	1,891.63	7,519.32	9,565.22	9,537.75	27.46	348.276	
5,600.00	5,413.14	100.00	146.94	26.19	2.00	96.19	1,891.63	7,519.32	9,624.99	9,596.93	28.06	343.039	
5,700.00	5,508.48	100.00	146.94	26.78	2.00	96.21	1,891.63	7,519.32	9,685.43	9,656.78	28.65	338.061	
5,800.00	5,604.35	100.00	146.94	27.24	2.00	97.74	1,891.63	7,519.32	9,746.35	9,717.31	29.04	333.622	
5,900.00	5,701.15	100.00	146.94	27.65	2.00	99.27	1,891.63	7,519.32	9,807.55	9,778.17	29.37	333.892	
6,000.00	5,798.77	100.00	146.94	28.02	2.00	100.80	1,891.63	7,519.32	9,868.93	9,839.28	29.65	332.851	
6,100.00	5,897.08	100.00	146.94	28.35	2.00	102.33	1,891.63	7,519.32	9,930.44	9,900.57	29.87	332.482	
6,200.00	5,995.98	100.00	146.94	28.63	2.00	103.85	1,891.63	7,519.32	9,991.98	9,961.95	30.03	332.768	
6,300.00	6,095.33	100.00	146.94	28.87	2.00	105.36	1,891.63	7,519.32	10,053.48	10,023.35	30.13	333.698	
6,400.00	6,195.01	100.00	146.94	29.06	2.00	106.85	1,891.63	7,519.32	10,114.87	10,084.70	30.17	335.259	
6,500.00	6,294.91	100.00	146.94	29.20	2.00	108.33	1,891.63	7,519.32	10,176.09	10,145.93	30.16	337.443	
6,600.00	6,394.89	100.00	146.94	29.30	2.00	-3.95	1,891.63	7,519.32	10,236.75	10,206.67	30.08	340.351	
6,700.00	6,494.28	100.00	146.94	29.34	2.00	-3.62	1,891.63	7,519.32	10,289.61	10,260.01	29.59	347.696	
6,800.00	6,591.26	100.00	146.94	29.31	2.00	-3.39	1,891.63	7,519.32	10,330.95	10,302.40	28.55	361.828	
6,900.00	6,683.95	100.00	146.94	29.23	2.00	-3.25	1,891.63	7,519.32	10,360.12	10,333.14	26.98	383.979	
7,000.00	6,770.55	100.00	146.94	29.09	2.00	-3.18	1,891.63	7,519.32	10,376.66	10,351.73	24.92	416.320	
7,100.00	6,849.36	100.00	146.94	28.92	2.00	-3.16	1,891.63	7,519.32	10,380.29	10,357.85	22.45	462.452	
7,200.00	6,918.86	100.00	146.94	28.73	2.00	-3.20	1,891.63	7,519.32	10,370.97	10,351.34	19.63	528.254	
7,300.00	6,977.70	100.00	146.94	28.54	2.00	-3.31	1,891.63	7,519.32	10,348.84	10,332.23	16.61	623.080	
7,400.00	7,027.98	100.00	146.94	28.35	2.00	-3.37	1,891.63	7,519.32	10,317.71	10,302.23	15.48	666.314	
7,500.00	7,070.01	100.00	146.94	28.19	2.00	-3.57	1,891.63	7,519.32	10,278.79	10,266.20	12.59	816.372	
7,600.00	7,099.01	100.00	146.94	28.06	2.00	-3.88	1,891.63	7,519.32	10,228.21	10,217.95	10.26	996.917	
7,700.00	7,114.42	100.00	146.94	27.97	2.00	-4.32	1,891.63	7,519.32	10,166.79	10,157.60	9.19	1,106.731	
7,800.00	7,117.13	100.00	146.94	28.00	2.00	-4.68	1,891.63	7,519.32	10,096.34	10,086.64	9.70	1,040.915	
7,900.00	7,117.44	100.00	146.94	28.26	2.00	-4.68	1,891.63	7,519.32	10,024.67	10,014.30	10.37	966.343	
8,000.00	7,117.75	100.00	146.94	28.94	2.00	-4.68	1,891.63	7,519.32	9,953.49	9,942.43	11.06	899.989	
8,100.00	7,118.06	100.00	146.94	30.16	2.00	-4.68	1,891.63	7,519.32	9,882.81	9,871.06	11.75	840.754	
8,200.00	7,118.37	100.00	146.94	31.76	2.00	-4.68	1,891.63	7,519.32	9,812.64	9,800.18	12.46	787.682	
8,300.00	7,118.68	100.00	146.94	33.58	2.00	-4.68	1,891.63	7,519.32	9,742.99	9,729.82	13.17	739.952	
8,400.00	7,118.99	100.00	146.94	35.53	2.00	-4.68	1,891.63	7,519.32	9,673.87	9,659.99	13.88	696.864	
8,500.00	7,119.30	100.00	146.94	37.56	2.00	-4.68	1,891.63	7,519.32	9,605.30	9,590.70	14.60	657.822	
8,600.00	7,119.61	100.00	146.94	39.66	2.00	-4.68	1,891.63	7,519.32	9,537.28	9,521.96	15.33	622.321	
8,700.00	7,119.92	100.00	146.94	41.80	2.00	-4.68	1,891.63	7,519.32	9,469.83	9,453.78	16.05	589.929	
8,800.00	7,120.23	100.00	146.94	43.99	2.00	-4.68	1,891.63	7,519.32	9,402.96	9,386.18	16.78	560.278	
8,900.00	7,120.54	100.00	146.94	46.22	2.00	-4.68	1,891.63	7,519.32	9,336.68	9,319.17	17.52	533.053	
9,000.00	7,120.85	100.00	146.94	48.47	2.00	-4.68	1,891.63	7,519.32	9,271.01	9,252.76	18.25	507.984	
9,100.00	7,121.16	100.00	146.94	50.75	2.00	-4.68	1,891.63	7,519.32	9,205.95	9,186.96	18.99	484.836	
9,200.00	7,121.47	100.00	146.94	53.05	2.00	-4.68	1,891.63	7,519.32	9,141.53	9,121.80	19.73	463.407	
9,300.00	7,121.78	100.00	146.94	55.37	2.00	-4.68	1,891.63	7,519.32	9,077.75	9,057.28	20.47	443.523	
9,400.00	7,122.09	100.00	146.94	57.71	2.00	-4.68	1,891.63	7,519.32	9,014.62	8,993.41	21.21	425.029	
9,500.00	7,122.40	100.00	146.94	60.06	2.00	-4.68	1,891.63	7,519.32	8,952.17	8,930.22	21.95	407.792	
9,600.00	7,122.71	100.00	146.94	62.43	2.00	-4.68	1,891.63	7,519.32	8,890.41	8,867.71	22.70	391.694	
9,700.00	7,123.02	100.00	146.94	64.80	2.00	-4.68	1,891.63	7,519.32	8,829.34	8,805.90	23.44	376.632	
9,800.00	7,123.33	100.00	146.94	67.19	2.00	-4.68	1,891.63	7,519.32	8,769.00	8,744.81	24.19	362.513	
9,900.00	7,123.65	100.00	146.94	69.59	2.00	-4.68	1,891.63	7,519.32	8,709.38	8,684.44	24.94	349.257	
10,000.00	7,123.96	100.00	146.94	71.99	2.00	-4.68	1,891.63	7,519.32	8,650.50	8,624.82	25.69	336.791	
10,100.00	7,124.27	100.00	146.94	74.40	2.00	-4.68	1,891.63	7,519.32	8,592.39	8,565.96	26.43	325.051	
10,200.00	7,124.58	100.00	146.94	76.82	2.00	-4.68	1,891.63	7,519.32	8,535.05	8,507.87	27.18	313.978	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	100.00	146.94	79.25	2.00	-4.68	1,891.63	7,519.32	8,478.51	8,450.57	27.93	303.521		
10,400.00	7,125.20	100.00	146.94	81.68	2.00	-4.68	1,891.63	7,519.32	8,422.77	8,394.08	28.68	293.634		
10,500.00	7,125.51	100.00	146.94	84.12	2.00	-4.68	1,891.63	7,519.32	8,367.86	8,338.42	29.44	284.274		
10,600.00	7,125.82	100.00	146.94	86.56	2.00	-4.68	1,891.63	7,519.32	8,313.78	8,283.59	30.19	275.403		
10,700.00	7,126.13	100.00	146.94	89.01	2.00	-4.68	1,891.63	7,519.32	8,260.56	8,229.62	30.94	266.987		
10,800.00	7,126.44	100.00	146.94	91.46	2.00	-4.68	1,891.63	7,519.32	8,208.22	8,176.53	31.69	258.995		
10,900.00	7,126.75	100.00	146.94	93.91	2.00	-4.68	1,891.63	7,519.32	8,156.77	8,124.32	32.45	251.398		
11,000.00	7,127.06	100.00	146.94	96.37	2.00	-4.68	1,891.63	7,519.32	8,106.22	8,073.02	33.20	244.171		
11,100.00	7,127.37	100.00	146.94	98.83	2.00	-4.68	1,891.63	7,519.32	8,056.60	8,022.64	33.95	237.289		
11,200.00	7,127.68	100.00	146.94	101.30	2.00	-4.68	1,891.63	7,519.32	8,007.92	7,973.21	34.71	230.731		
11,300.00	7,127.99	100.00	146.94	103.77	2.00	-4.68	1,891.63	7,519.32	7,960.19	7,924.73	35.46	224.477		
11,400.00	7,128.30	100.00	146.94	106.24	2.00	-4.68	1,891.63	7,519.32	7,913.45	7,877.23	36.22	218.509		
11,500.00	7,128.61	100.00	146.94	108.71	2.00	-4.68	1,891.63	7,519.32	7,867.69	7,830.72	36.97	212.810		
11,600.00	7,128.92	100.00	146.94	111.19	2.00	-4.68	1,891.63	7,519.32	7,822.95	7,785.23	37.73	207.364		
11,700.00	7,129.23	100.00	146.94	113.66	2.00	-4.68	1,891.63	7,519.32	7,779.24	7,740.76	38.48	202.158		
11,800.00	7,129.54	100.00	146.94	116.14	2.00	-4.68	1,891.63	7,519.32	7,736.57	7,697.33	39.24	197.177		
11,900.00	7,129.85	100.00	146.94	118.62	2.00	-4.68	1,891.63	7,519.32	7,694.96	7,654.97	39.99	192.411		
12,000.00	7,130.16	100.00	146.94	121.11	2.00	-4.68	1,891.63	7,519.32	7,654.44	7,613.69	40.75	187.847		
12,100.00	7,130.47	100.00	146.94	123.59	2.00	-4.68	1,891.63	7,519.32	7,615.01	7,573.50	41.50	183.475		
12,200.00	7,130.78	100.00	146.94	126.08	2.00	-4.68	1,891.63	7,519.32	7,576.70	7,534.44	42.26	179.285		
12,300.00	7,131.09	100.00	146.94	128.57	2.00	-4.68	1,891.63	7,519.32	7,539.51	7,496.50	43.02	175.267		
12,400.00	7,131.40	100.00	146.94	131.06	2.00	-4.68	1,891.63	7,519.32	7,503.48	7,459.71	43.77	171.415		
12,500.00	7,131.71	100.00	146.94	133.55	2.00	-4.68	1,891.63	7,519.32	7,468.61	7,424.08	44.53	167.719		
12,600.00	7,132.02	100.00	146.94	136.04	2.00	-4.68	1,891.63	7,519.32	7,434.93	7,389.64	45.29	164.172		
12,700.00	7,132.33	100.00	146.94	138.54	2.00	-4.68	1,891.63	7,519.32	7,402.44	7,356.40	46.04	160.767		
12,800.00	7,132.64	100.00	146.94	141.03	2.00	-4.68	1,891.63	7,519.32	7,371.17	7,324.36	46.80	157.498		
12,900.00	7,132.95	100.00	146.94	143.53	2.00	-4.68	1,891.63	7,519.32	7,341.12	7,293.56	47.56	154.358		
13,000.00	7,133.26	100.00	146.94	146.02	2.00	-4.68	1,891.63	7,519.32	7,312.32	7,264.00	48.32	151.343		
13,100.00	7,133.57	100.00	146.94	148.52	2.00	-4.68	1,891.63	7,519.32	7,284.78	7,235.70	49.07	148.445		
13,200.00	7,133.88	100.00	146.94	151.02	2.00	-4.68	1,891.63	7,519.32	7,258.51	7,208.68	49.83	145.661		
13,300.00	7,134.19	100.00	146.94	153.52	2.00	-4.68	1,891.63	7,519.32	7,233.53	7,182.94	50.59	142.986		
13,400.00	7,134.50	100.00	146.94	156.02	2.00	-4.68	1,891.63	7,519.32	7,209.84	7,158.50	51.35	140.414		
13,500.00	7,134.81	100.00	146.94	158.52	2.00	-4.68	1,891.63	7,519.32	7,187.48	7,135.37	52.10	137.943		
13,600.00	7,135.12	100.00	146.94	161.03	2.00	-4.68	1,891.63	7,519.32	7,166.43	7,113.57	52.86	135.567		
13,700.00	7,135.43	100.00	146.94	163.53	2.00	-4.68	1,891.63	7,519.32	7,146.73	7,093.11	53.62	133.283		
13,800.00	7,135.74	100.00	146.94	166.03	2.00	-4.68	1,891.63	7,519.32	7,128.37	7,073.99	54.38	131.087		
13,900.00	7,136.05	100.00	146.94	168.54	2.00	-4.68	1,891.63	7,519.32	7,111.37	7,056.24	55.14	128.976		
14,000.00	7,136.36	100.00	146.94	171.04	2.00	-4.68	1,891.63	7,519.32	7,095.75	7,039.85	55.90	126.947		
14,100.00	7,136.67	100.00	146.94	173.55	2.00	-4.68	1,891.63	7,519.32	7,081.49	7,024.84	56.65	124.996		
14,200.00	7,136.98	100.00	146.94	176.05	2.00	-4.68	1,891.63	7,519.32	7,068.63	7,011.22	57.41	123.121		
14,300.00	7,137.29	100.00	146.94	178.56	2.00	-4.68	1,891.63	7,519.32	7,057.16	6,998.99	58.17	121.318		
14,400.00	7,137.60	100.00	146.94	181.07	2.00	-4.68	1,891.63	7,519.32	7,047.09	6,988.16	58.93	119.586		
14,500.00	7,137.91	100.00	146.94	183.58	2.00	-4.68	1,891.63	7,519.32	7,038.42	6,978.74	59.69	117.920		
14,600.00	7,138.22	100.00	146.94	186.09	2.00	-4.68	1,891.63	7,519.32	7,031.17	6,970.72	60.45	116.320		
14,700.00	7,138.53	100.00	146.94	188.59	2.00	-4.68	1,891.63	7,519.32	7,025.33	6,964.13	61.21	114.783		
14,800.00	7,138.84	100.00	146.94	191.10	2.00	-4.68	1,891.63	7,519.32	7,020.92	6,958.95	61.96	113.306		
14,900.00	7,139.15	100.00	146.94	193.61	2.00	-4.68	1,891.63	7,519.32	7,017.92	6,955.20	62.72	111.888		
15,000.00	7,139.46	100.00	146.94	196.13	2.00	-4.68	1,891.63	7,519.32	7,016.35	6,952.87	63.48	110.526		
15,060.20	7,139.65	100.00	146.94	197.64	2.00	-4.68	1,891.63	7,519.32	7,016.09	6,952.16	63.94	109.732 CC		
15,100.00	7,139.77	100.00	146.94	198.64	2.00	-4.68	1,891.63	7,519.32	7,016.21	6,951.97	64.24	109.218 ES		
15,200.00	7,140.08	100.00	146.94	201.15	2.00	-4.68	1,891.63	7,519.32	7,017.49	6,952.49	65.00	107.962		
15,300.00	7,140.39	100.00	146.94	203.66	2.00	-4.68	1,891.63	7,519.32	7,020.19	6,954.43	65.76	106.757		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 252H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,400.00	7,140.70	100.00	146.94	206.17	2.00	-4.68	1,891.63	7,519.32	7,024.32	6,957.80	66.52	105.601	
15,500.00	7,141.01	100.00	146.94	208.68	2.00	-4.68	1,891.63	7,519.32	7,029.87	6,962.59	67.28	104.492	
15,600.00	7,141.32	100.00	146.94	211.20	2.00	-4.68	1,891.63	7,519.32	7,036.83	6,968.79	68.04	103.428	
15,700.00	7,141.63	100.00	146.94	213.71	2.00	-4.68	1,891.63	7,519.32	7,045.21	6,976.41	68.80	102.409	
15,800.00	7,141.94	100.00	146.94	216.22	2.00	-4.68	1,891.63	7,519.32	7,054.99	6,985.44	69.55	101.431	
15,900.00	7,142.25	100.00	146.94	218.74	2.00	-4.68	1,891.63	7,519.32	7,066.18	6,995.86	70.31	100.495	
16,000.00	7,142.56	100.00	146.94	221.25	2.00	-4.68	1,891.63	7,519.32	7,078.76	7,007.69	71.07	99.599	
16,100.00	7,142.87	100.00	146.94	223.77	2.00	-4.68	1,891.63	7,519.32	7,092.73	7,020.89	71.83	98.740	
16,200.00	7,143.18	100.00	146.94	226.28	2.00	-4.68	1,891.63	7,519.32	7,108.08	7,035.48	72.59	97.919	
16,300.00	7,143.49	100.00	146.94	228.80	2.00	-4.68	1,891.63	7,519.32	7,124.79	7,051.44	73.35	97.133	
16,400.00	7,143.80	100.00	146.94	231.31	2.00	-4.68	1,891.63	7,519.32	7,142.87	7,068.76	74.11	96.382	
16,500.00	7,144.11	100.00	146.94	233.83	2.00	-4.68	1,891.63	7,519.32	7,162.31	7,087.44	74.87	95.664	
16,600.00	7,144.42	100.00	146.94	236.34	2.00	-4.68	1,891.63	7,519.32	7,183.08	7,107.45	75.63	94.978	
16,700.00	7,144.73	100.00	146.94	238.86	2.00	-4.68	1,891.63	7,519.32	7,205.17	7,128.79	76.39	94.323	
16,800.00	7,145.05	100.00	146.94	241.37	2.00	-4.68	1,891.63	7,519.32	7,228.59	7,151.44	77.15	93.697	
16,900.00	7,145.36	100.00	146.94	243.89	2.00	-4.68	1,891.63	7,519.32	7,253.31	7,175.40	77.91	93.101	
17,000.00	7,145.67	100.00	146.94	246.41	2.00	-4.68	1,891.63	7,519.32	7,279.31	7,200.65	78.67	92.533	
17,100.00	7,145.98	100.00	146.94	248.93	2.00	-4.68	1,891.63	7,519.32	7,306.60	7,227.17	79.43	91.991	
17,200.00	7,146.29	100.00	146.94	251.44	2.00	-4.68	1,891.63	7,519.32	7,335.14	7,254.96	80.19	91.476	
17,300.00	7,146.60	100.00	146.94	253.96	2.00	-4.68	1,891.63	7,519.32	7,364.94	7,283.99	80.95	90.986	
17,400.00	7,146.91	100.00	146.94	256.48	2.00	-4.68	1,891.63	7,519.32	7,395.96	7,314.26	81.71	90.519	
17,430.36	7,147.00	100.00	146.94	257.24	2.00	-4.68	1,891.63	7,519.32	7,405.62	7,323.69	81.94	90.382 SF	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	14.74	0.00	0.00	22.76	422.13	177.09	458.01					
100.00	100.00	85.26	100.00	0.08	1.71	22.76	422.13	177.09	457.77	455.98	1.79	255.807		
200.00	200.00	185.26	200.00	0.31	5.41	22.76	422.13	177.09	457.77	452.05	5.72	80.038		
300.00	300.00	285.26	300.00	0.53	9.41	22.76	422.13	177.09	457.77	447.83	9.94	46.034		
400.00	400.00	385.26	400.00	0.76	13.41	22.76	422.13	177.09	457.77	443.60	14.17	32.308		
500.00	500.00	485.26	500.00	0.98	17.41	22.76	422.13	177.09	457.77	439.38	18.39	24.887		
600.00	600.00	585.26	600.00	1.21	21.41	22.76	422.13	177.09	457.77	435.15	22.62	20.239		
700.00	700.00	685.26	700.00	1.43	25.41	22.76	422.13	177.09	457.77	430.93	26.84	17.053		
800.00	800.00	785.26	800.00	1.66	29.41	22.76	422.13	177.09	457.77	426.70	31.07	14.734		
900.00	900.00	885.26	900.00	1.88	33.41	22.76	422.13	177.09	457.77	422.48	35.29	12.971		
1,000.00	1,000.00	985.26	1,000.00	2.11	37.41	22.76	422.13	177.09	457.77	418.25	39.52	11.584		
1,100.00	1,099.98	1,085.24	1,099.98	2.33	41.41	46.55	422.13	177.09	456.57	412.84	43.73	10.441		
1,200.00	1,199.84	1,185.10	1,199.84	2.56	45.40	47.08	422.13	177.09	452.98	405.08	47.91	9.455		
1,300.00	1,299.45	1,284.71	1,299.45	2.79	49.39	47.99	422.13	177.09	447.09	395.03	52.05	8.589		
1,400.00	1,398.70	1,383.96	1,398.70	3.03	53.36	49.29	422.13	177.09	439.00	382.84	56.16	7.816		
1,500.00	1,497.47	1,482.73	1,497.47	3.30	57.31	51.02	422.13	177.09	428.90	368.65	60.25	7.119		
1,600.00	1,595.62	1,580.88	1,595.62	3.61	61.24	53.22	422.13	177.09	417.05	352.72	64.33	6.483		
1,700.00	1,693.06	1,678.32	1,693.06	3.95	65.13	55.96	422.13	177.09	403.79	335.37	68.42	5.902		
1,800.00	1,789.64	1,774.90	1,789.64	4.35	69.00	59.28	422.13	177.09	389.58	317.01	72.57	5.368		
1,900.00	1,885.30	1,870.56	1,885.30	4.80	72.82	63.18	422.13	177.09	375.07	298.23	76.85	4.881		
2,000.00	1,980.64	1,965.90	1,980.64	5.29	76.64	67.28	422.13	177.09	361.93	280.62	81.31	4.451		
2,100.00	2,075.99	2,061.25	2,075.99	5.80	80.45	71.63	422.13	177.09	350.89	265.09	85.81	4.089		
2,200.00	2,171.34	2,156.60	2,171.34	6.33	84.26	76.22	422.13	177.09	342.16	251.84	90.32	3.788		
2,300.00	2,266.68	2,251.94	2,266.68	6.87	88.08	80.99	422.13	177.09	335.92	241.10	94.82	3.543		
2,400.00	2,362.03	2,347.29	2,362.03	7.41	91.89	85.89	422.13	177.09	332.31	233.03	99.28	3.347		
2,482.77	2,440.95	2,426.21	2,440.95	7.87	95.05	90.00	422.13	177.09	331.37	228.45	102.92	3.220 CC		
2,500.00	2,457.38	2,442.64	2,457.38	7.97	95.71	90.86	422.13	177.09	331.42	227.75	103.67	3.197		
2,600.00	2,552.72	2,537.98	2,552.72	8.53	99.52	95.81	422.13	177.09	333.25	225.28	107.97	3.087 ES		
2,700.00	2,648.07	2,633.33	2,648.07	9.10	103.33	100.67	422.13	177.09	337.78	225.62	112.17	3.011		
2,800.00	2,743.42	2,728.68	2,743.42	9.67	107.15	105.39	422.13	177.09	344.90	228.64	116.26	2.967		
2,900.00	2,838.77	2,824.03	2,838.77	10.24	110.96	109.90	422.13	177.09	354.45	234.19	120.25	2.947		
3,000.00	2,934.11	2,919.37	2,934.11	10.82	114.77	114.17	422.13	177.09	366.23	242.07	124.16	2.950		
3,100.00	3,029.46	3,014.72	3,029.46	11.40	118.59	118.17	422.13	177.09	380.05	252.06	127.99	2.969		
3,200.00	3,124.81	3,110.07	3,124.81	11.98	122.40	121.89	422.13	177.09	395.69	263.93	131.76	3.003		
3,300.00	3,220.15	3,205.41	3,220.15	12.56	126.22	125.33	422.13	177.09	412.93	277.44	135.49	3.048		
3,400.00	3,315.50	3,300.76	3,315.50	13.14	130.03	128.51	422.13	177.09	431.60	292.41	139.20	3.101		
3,500.00	3,410.85	3,396.11	3,410.85	13.73	133.84	131.43	422.13	177.09	451.51	308.63	142.88	3.160		
3,600.00	3,506.19	3,491.45	3,506.19	14.32	137.66	134.10	422.13	177.09	472.51	325.95	146.56	3.224		
3,700.00	3,601.54	3,586.80	3,601.54	14.91	141.47	136.56	422.13	177.09	494.45	344.21	150.24	3.291		
3,800.00	3,696.89	3,682.15	3,696.89	15.50	145.29	138.81	422.13	177.09	517.22	363.30	153.93	3.360		
3,900.00	3,792.24	3,777.50	3,792.24	16.09	149.10	140.88	422.13	177.09	540.72	383.10	157.62	3.431		
4,000.00	3,887.58	3,872.84	3,887.58	16.68	152.91	142.77	422.13	177.09	564.84	403.52	161.32	3.501		
4,100.00	3,982.93	3,968.19	3,982.93	17.27	156.73	144.52	422.13	177.09	589.52	424.49	165.03	3.572		
4,200.00	4,078.28	4,063.54	4,078.28	17.86	160.54	146.13	422.13	177.09	614.69	445.94	168.75	3.643		
4,300.00	4,173.62	4,158.88	4,173.62	18.45	164.36	147.61	422.13	177.09	640.29	467.80	172.49	3.712		
4,400.00	4,268.97	4,254.23	4,268.97	19.05	168.17	148.98	422.13	177.09	666.27	490.03	176.24	3.781		
4,500.00	4,364.32	4,349.58	4,364.32	19.64	171.98	150.25	422.13	177.09	692.59	512.59	180.00	3.848		
4,600.00	4,459.67	4,444.93	4,459.67	20.23	175.80	151.43	422.13	177.09	719.21	535.44	183.76	3.914		
4,700.00	4,555.01	4,540.27	4,555.01	20.83	179.61	152.53	422.13	177.09	746.09	558.55	187.54	3.978		
4,800.00	4,650.36	4,635.62	4,650.36	21.42	183.42	153.55	422.13	177.09	773.22	581.89	191.33	4.041		
4,900.00	4,745.71	4,730.97	4,745.71	22.02	187.24	154.50	422.13	177.09	800.57	605.43	195.13	4.103		
5,000.00	4,841.05	4,826.31	4,841.05	22.61	191.05	155.39	422.13	177.09	828.11	629.16	198.94	4.163		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	4,921.66	4,936.40	23.21	194.87	156.23	422.13	177.09	855.82	653.06	202.76	4.221		
5,200.00	5,031.75	5,017.01	5,031.75	23.80	198.68	157.01	422.13	177.09	883.69	677.11	206.58	4.278		
5,300.00	5,127.09	5,112.35	5,127.09	24.40	202.49	157.75	422.13	177.09	911.71	701.30	210.41	4.333		
5,400.00	5,222.44	5,207.70	5,222.44	25.00	206.31	158.44	422.13	177.09	939.86	725.62	214.25	4.387		
5,500.00	5,317.79	5,303.05	5,317.79	25.59	210.12	159.09	422.13	177.09	968.14	750.04	218.09	4.439		
5,600.00	5,413.14	5,398.40	5,413.14	26.19	213.94	159.71	422.13	177.09	996.52	774.58	221.94	4.490		
5,700.00	5,508.48	5,493.74	5,508.48	26.78	217.75	160.29	422.13	177.09	1,025.00	799.18	225.82	4.539		
5,800.00	5,604.35	5,589.61	5,604.35	27.24	221.58	160.99	422.13	177.09	1,051.94	820.37	231.57	4.543		
5,900.00	5,701.15	5,686.41	5,701.15	27.65	225.46	161.58	422.13	177.09	1,075.76	838.54	237.22	4.535		
6,000.00	5,798.77	5,784.03	5,798.77	28.02	229.36	162.07	422.13	177.09	1,096.40	853.68	242.72	4.517		
6,100.00	5,897.08	5,882.34	5,897.08	28.35	233.29	162.46	422.13	177.09	1,113.82	865.76	248.05	4.490		
6,200.00	5,995.98	5,981.24	5,995.98	28.63	237.25	162.78	422.13	177.09	1,127.97	874.78	253.19	4.455		
6,300.00	6,095.33	6,080.59	6,095.33	28.87	241.22	163.01	422.13	177.09	1,138.82	880.73	258.09	4.412		
6,400.00	6,195.01	6,180.27	6,195.01	29.06	245.21	163.17	422.13	177.09	1,146.36	883.62	262.74	4.363		
6,500.00	6,294.91	6,280.17	6,294.91	29.20	249.21	163.26	422.13	177.09	1,150.57	883.44	267.13	4.307		
6,600.00	6,394.89	6,380.15	6,394.89	29.30	253.21	49.83	422.13	177.09	1,151.27	880.16	271.11	4.247		
6,700.00	6,494.28	6,479.54	6,494.28	29.34	257.18	50.63	422.13	177.09	1,144.64	871.48	273.16	4.190		
6,800.00	6,591.26	6,576.52	6,591.26	29.31	261.06	52.53	422.13	177.09	1,129.40	856.13	273.27	4.133		
6,900.00	6,683.95	6,669.21	6,683.95	29.23	264.77	55.54	422.13	177.09	1,106.37	833.76	272.61	4.058		
7,000.00	6,770.55	6,755.81	6,770.55	29.09	268.23	59.62	422.13	177.09	1,076.86	803.81	273.05	3.944		
7,100.00	6,849.36	6,834.62	6,849.36	28.92	271.38	64.65	422.13	177.09	1,042.63	766.52	276.11	3.776		
7,200.00	6,918.86	6,904.12	6,918.86	28.73	274.16	70.34	422.13	177.09	1,005.90	723.85	282.05	3.566		
7,300.00	6,977.70	6,962.96	6,977.70	28.54	276.52	76.18	422.13	177.09	969.28	679.77	289.51	3.348		
7,400.00	7,027.98	7,013.24	7,027.98	28.35	278.53	80.01	422.13	177.09	936.24	640.72	295.52	3.168		
7,500.00	7,070.01	7,055.27	7,070.01	28.19	280.21	84.67	422.13	177.09	909.16	607.96	301.21	3.018		
7,600.00	7,099.01	7,084.27	7,099.01	28.06	281.37	88.05	422.13	177.09	889.76	584.68	305.09	2.916		
7,700.00	7,114.42	7,099.68	7,114.42	27.97	281.99	89.80	422.13	177.09	880.25	572.56	307.68	2.861		
7,736.05	7,116.95	7,102.21	7,116.95	27.97	282.09	90.00	422.13	177.09	879.51	570.68	308.83	2.848		
7,800.00	7,117.13	7,102.39	7,117.13	28.00	282.10	90.01	422.13	177.09	881.83	572.17	309.66	2.848 SF		
7,900.00	7,117.44	7,102.70	7,117.44	28.26	282.11	90.03	422.13	177.09	894.66	582.95	311.72	2.870		
8,000.00	7,117.75	7,103.01	7,117.75	28.94	282.12	90.05	422.13	177.09	918.27	604.34	313.93	2.925		
8,100.00	7,118.06	7,103.32	7,118.06	30.16	282.13	90.07	422.13	177.09	951.84	635.57	316.27	3.010		
8,200.00	7,118.37	7,103.63	7,118.37	31.76	282.15	90.09	422.13	177.09	994.38	675.66	318.73	3.120		
8,300.00	7,118.68	7,103.94	7,118.68	33.58	282.16	90.11	422.13	177.09	1,044.79	723.52	321.27	3.252		
8,400.00	7,118.99	7,104.25	7,118.99	35.53	282.17	90.13	422.13	177.09	1,101.99	778.10	323.89	3.402		
8,500.00	7,119.30	7,104.56	7,119.30	37.56	282.18	90.15	422.13	177.09	1,164.98	838.41	326.57	3.567		
8,600.00	7,119.61	7,104.87	7,119.61	39.66	282.19	90.17	422.13	177.09	1,232.87	903.57	329.30	3.744		
8,700.00	7,119.92	7,105.18	7,119.92	41.80	282.21	90.19	422.13	177.09	1,304.90	972.82	332.08	3.929		
8,800.00	7,120.23	7,105.49	7,120.23	43.99	282.22	90.21	422.13	177.09	1,380.42	1,045.53	334.89	4.122		
8,900.00	7,120.54	7,105.80	7,120.54	46.22	282.23	90.24	422.13	177.09	1,458.88	1,121.15	337.73	4.320		
9,000.00	7,120.85	7,106.11	7,120.85	48.47	282.24	90.26	422.13	177.09	1,539.85	1,199.24	340.60	4.521		
9,100.00	7,121.16	7,106.42	7,121.16	50.75	282.26	90.28	422.13	177.09	1,622.94	1,279.44	343.50	4.725		
9,200.00	7,121.47	7,106.73	7,121.47	53.05	282.27	90.30	422.13	177.09	1,707.84	1,361.43	346.41	4.930		
9,300.00	7,121.78	7,107.04	7,121.78	55.37	282.28	90.32	422.13	177.09	1,794.30	1,444.95	349.34	5.136		
9,400.00	7,122.09	7,107.35	7,122.09	57.71	282.29	90.34	422.13	177.09	1,882.10	1,529.81	352.29	5.342		
9,500.00	7,122.40	7,107.66	7,122.40	60.06	282.31	90.36	422.13	177.09	1,971.06	1,615.81	355.25	5.548		
9,600.00	7,122.71	7,107.97	7,122.71	62.43	282.32	90.38	422.13	177.09	2,061.04	1,702.82	358.22	5.754		
9,700.00	7,123.02	7,108.28	7,123.02	64.80	282.33	90.40	422.13	177.09	2,151.90	1,790.69	361.20	5.958		
9,800.00	7,123.33	7,108.59	7,123.33	67.19	282.34	90.42	422.13	177.09	2,243.53	1,879.34	364.19	6.160		
9,900.00	7,123.65	7,108.91	7,123.65	69.59	282.36	90.44	422.13	177.09	2,335.86	1,968.66	367.19	6.361		
10,000.00	7,123.96	7,109.22	7,123.96	71.99	282.37	90.46	422.13	177.09	2,428.79	2,058.59	370.20	6.561		
10,100.00	7,124.27	7,109.53	7,124.27	74.40	282.38	90.48	422.13	177.09	2,522.26	2,149.05	373.22	6.758		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
10,200.00	7,124.58	7,109.84	7,124.58	76.82	282.39	90.50	422.13	177.09	2,616.22	2,239.98	376.24	6.954		
10,300.00	7,124.89	7,110.15	7,124.89	79.25	282.41	90.52	422.13	177.09	2,710.61	2,331.34	379.26	7.147		
10,400.00	7,125.20	7,110.46	7,125.20	81.68	282.42	90.54	422.13	177.09	2,805.38	2,423.09	382.29	7.338		
10,500.00	7,125.51	7,110.77	7,125.51	84.12	282.43	90.56	422.13	177.09	2,900.51	2,515.18	385.33	7.527		
10,600.00	7,125.82	7,111.08	7,125.82	86.56	282.44	90.58	422.13	177.09	2,995.96	2,607.59	388.37	7.714		
10,700.00	7,126.13	7,111.39	7,126.13	89.01	282.46	90.60	422.13	177.09	3,091.69	2,700.28	391.41	7.899		
10,800.00	7,126.44	7,111.70	7,126.44	91.46	282.47	90.62	422.13	177.09	3,187.68	2,793.22	394.46	8.081		
10,900.00	7,126.75	7,112.01	7,126.75	93.91	282.48	90.64	422.13	177.09	3,283.92	2,886.41	397.51	8.261		
11,000.00	7,127.06	7,112.32	7,127.06	96.37	282.49	90.66	422.13	177.09	3,380.37	2,979.81	400.56	8.439		
11,100.00	7,127.37	7,112.63	7,127.37	98.83	282.51	90.68	422.13	177.09	3,477.02	3,073.40	403.62	8.615		
11,200.00	7,127.68	7,112.94	7,127.68	101.30	282.52	90.70	422.13	177.09	3,573.86	3,167.18	406.68	8.788		
11,300.00	7,127.99	7,113.25	7,127.99	103.77	282.53	90.72	422.13	177.09	3,670.87	3,261.13	409.74	8.959		
11,400.00	7,128.30	7,113.56	7,128.30	106.24	282.54	90.74	422.13	177.09	3,768.03	3,355.23	412.80	9.128		
11,500.00	7,128.61	7,113.87	7,128.61	108.71	282.55	90.76	422.13	177.09	3,865.34	3,449.47	415.87	9.295		
11,600.00	7,128.92	7,114.18	7,128.92	111.19	282.57	90.78	422.13	177.09	3,962.78	3,543.85	418.93	9.459		
11,700.00	7,129.23	7,114.49	7,129.23	113.66	282.58	90.80	422.13	177.09	4,060.35	3,638.34	422.00	9.622		
11,800.00	7,129.54	7,114.80	7,129.54	116.14	282.59	90.82	422.13	177.09	4,158.03	3,732.96	425.07	9.782		
11,900.00	7,129.85	7,115.11	7,129.85	118.62	282.60	90.84	422.13	177.09	4,255.82	3,827.67	428.14	9.940		
12,000.00	7,130.16	7,115.42	7,130.16	121.11	282.62	90.86	422.13	177.09	4,353.71	3,922.49	431.22	10.096		
12,100.00	7,130.47	7,115.73	7,130.47	123.59	282.63	90.88	422.13	177.09	4,451.69	4,017.40	434.29	10.250		
12,200.00	7,130.78	7,116.04	7,130.78	126.08	282.64	90.90	422.13	177.09	4,549.76	4,112.40	437.37	10.403		
12,300.00	7,131.09	7,116.35	7,131.09	128.57	282.65	90.92	422.13	177.09	4,647.92	4,207.47	440.44	10.553		
12,400.00	7,131.40	7,116.66	7,131.40	131.06	282.67	90.94	422.13	177.09	4,746.15	4,302.62	443.52	10.701		
12,500.00	7,131.71	7,116.97	7,131.71	133.55	282.68	90.96	422.13	177.09	4,844.45	4,397.85	446.60	10.847		
12,600.00	7,132.02	7,117.28	7,132.02	136.04	282.69	90.98	422.13	177.09	4,942.82	4,493.14	449.68	10.992		
12,700.00	7,132.33	7,117.59	7,132.33	138.54	282.70	91.00	422.13	177.09	5,041.25	4,588.49	452.76	11.134		
12,800.00	7,132.64	7,117.90	7,132.64	141.03	282.72	91.02	422.13	177.09	5,139.75	4,683.91	455.84	11.275		
12,900.00	7,132.95	7,118.21	7,132.95	143.53	282.73	91.04	422.13	177.09	5,238.30	4,779.38	458.93	11.414		
13,000.00	7,133.26	7,118.52	7,133.26	146.02	282.74	91.06	422.13	177.09	5,336.91	4,874.90	462.01	11.552		
13,100.00	7,133.57	7,118.83	7,133.57	148.52	282.75	91.08	422.13	177.09	5,435.57	4,970.47	465.09	11.687		
13,200.00	7,133.88	7,119.14	7,133.88	151.02	282.77	91.10	422.13	177.09	5,534.27	5,066.09	468.18	11.821		
13,300.00	7,134.19	7,119.45	7,134.19	153.52	282.78	91.12	422.13	177.09	5,633.02	5,161.76	471.26	11.953		
13,400.00	7,134.50	7,119.76	7,134.50	156.02	282.79	91.14	422.13	177.09	5,731.82	5,257.47	474.35	12.084		
13,500.00	7,134.81	7,120.07	7,134.81	158.52	282.80	91.16	422.13	177.09	5,830.65	5,353.22	477.43	12.212		
13,600.00	7,135.12	7,120.38	7,135.12	161.03	282.82	91.18	422.13	177.09	5,929.53	5,449.01	480.52	12.340		
13,700.00	7,135.43	7,120.69	7,135.43	163.53	282.83	91.20	422.13	177.09	6,028.44	5,544.83	483.61	12.466		
13,800.00	7,135.74	7,121.00	7,135.74	166.03	282.84	91.22	422.13	177.09	6,127.39	5,640.69	486.70	12.590		
13,900.00	7,136.05	7,121.31	7,136.05	168.54	282.85	91.25	422.13	177.09	6,226.37	5,736.58	489.78	12.712		
14,000.00	7,136.36	7,121.62	7,136.36	171.04	282.86	91.27	422.13	177.09	6,325.38	5,832.51	492.87	12.834		
14,100.00	7,136.67	7,121.93	7,136.67	173.55	282.88	91.29	422.13	177.09	6,424.42	5,928.46	495.96	12.953		
14,200.00	7,136.98	7,122.24	7,136.98	176.05	282.89	91.31	422.13	177.09	6,523.49	6,024.44	499.05	13.072		
14,300.00	7,137.29	7,122.55	7,137.29	178.56	282.90	91.33	422.13	177.09	6,622.59	6,120.45	502.14	13.189		
14,400.00	7,137.60	7,122.86	7,137.60	181.07	282.91	91.35	422.13	177.09	6,721.72	6,216.49	505.23	13.304		
14,500.00	7,137.91	7,123.17	7,137.91	183.58	282.93	91.37	422.13	177.09	6,820.87	6,312.55	508.32	13.418		
14,600.00	7,138.22	7,123.48	7,138.22	186.09	282.94	91.39	422.13	177.09	6,920.05	6,408.64	511.41	13.531		
14,700.00	7,138.53	7,123.79	7,138.53	188.59	282.95	91.41	422.13	177.09	7,019.25	6,504.75	514.50	13.643		
14,800.00	7,138.84	7,124.10	7,138.84	191.10	282.96	91.43	422.13	177.09	7,118.47	6,600.88	517.60	13.753		
14,900.00	7,139.15	7,124.41	7,139.15	193.61	282.98	91.45	422.13	177.09	7,217.72	6,697.03	520.69	13.862		
15,000.00	7,139.46	7,124.72	7,139.46	196.13	282.99	91.47	422.13	177.09	7,316.98	6,793.20	523.78	13.970		
15,100.00	7,139.77	7,125.03	7,139.77	198.64	283.00	91.49	422.13	177.09	7,416.27	6,889.39	526.87	14.076		
15,200.00	7,140.08	7,125.34	7,140.08	201.15	283.01	91.51	422.13	177.09	7,515.57	6,985.61	529.96	14.181		
15,300.00	7,140.39	7,125.65	7,140.39	203.66	283.03	91.53	422.13	177.09	7,614.89	7,081.83	533.06	14.285		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	7,140.70	7,125.96	7,140.70	206.17	283.04	91.55	422.13	177.09	7,714.23	7,178.08	536.15	14.388		
15,500.00	7,141.01	7,126.27	7,141.01	208.68	283.05	91.57	422.13	177.09	7,813.59	7,274.34	539.24	14.490		
15,600.00	7,141.32	7,126.58	7,141.32	211.20	283.06	91.59	422.13	177.09	7,912.96	7,370.62	542.33	14.591		
15,700.00	7,141.63	7,126.89	7,141.63	213.71	283.08	91.61	422.13	177.09	8,012.34	7,466.92	545.43	14.690		
15,800.00	7,141.94	7,127.20	7,141.94	216.22	283.09	91.63	422.13	177.09	8,111.75	7,563.23	548.52	14.788		
15,900.00	7,142.25	7,127.51	7,142.25	218.74	283.10	91.65	422.13	177.09	8,211.16	7,659.55	551.61	14.886		
16,000.00	7,142.56	7,127.82	7,142.56	221.25	283.11	91.67	422.13	177.09	8,310.60	7,755.89	554.71	14.982		
16,100.00	7,142.87	7,128.13	7,142.87	223.77	283.13	91.69	422.13	177.09	8,410.04	7,852.24	557.80	15.077		
16,200.00	7,143.18	7,128.44	7,143.18	226.28	283.14	91.71	422.13	177.09	8,509.50	7,948.60	560.89	15.171		
16,300.00	7,143.49	7,128.75	7,143.49	228.80	283.15	91.73	422.13	177.09	8,608.97	8,044.98	563.99	15.264		
16,400.00	7,143.80	7,129.06	7,143.80	231.31	283.16	91.75	422.13	177.09	8,708.45	8,141.37	567.08	15.357		
16,500.00	7,144.11	7,129.37	7,144.11	233.83	283.17	91.77	422.13	177.09	8,807.94	8,237.77	570.17	15.448		
16,600.00	7,144.42	7,129.68	7,144.42	236.34	283.19	91.79	422.13	177.09	8,907.45	8,334.18	573.27	15.538		
16,700.00	7,144.73	7,129.99	7,144.73	238.86	283.20	91.81	422.13	177.09	9,006.97	8,430.60	576.36	15.627		
16,800.00	7,145.05	7,130.31	7,145.05	241.37	283.21	91.83	422.13	177.09	9,106.49	8,527.04	579.46	15.716		
16,900.00	7,145.36	7,130.62	7,145.36	243.89	283.22	91.85	422.13	177.09	9,206.03	8,623.48	582.55	15.803		
17,000.00	7,145.67	7,130.93	7,145.67	246.41	283.24	91.87	422.13	177.09	9,305.58	8,719.93	585.64	15.889		
17,100.00	7,145.98	7,131.24	7,145.98	248.93	283.25	91.89	422.13	177.09	9,405.13	8,816.39	588.74	15.975		
17,200.00	7,146.29	7,131.55	7,146.29	251.44	283.26	91.91	422.13	177.09	9,504.70	8,912.87	591.83	16.060		
17,300.00	7,146.60	7,131.86	7,146.60	253.96	283.27	91.93	422.13	177.09	9,604.27	9,009.35	594.93	16.144		
17,400.00	7,146.91	7,132.17	7,146.91	256.48	283.29	91.95	422.13	177.09	9,703.86	9,105.84	598.02	16.227		
17,430.36	7,147.00	7,132.26	7,147.00	257.24	283.29	91.96	422.13	177.09	9,734.09	9,135.13	598.96	16.252		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	44.31	0.00	0.00	178.33	-2.290.65	66.82	2,292.05					
100.00	100.00	55.69	100.00	0.08	1.11	178.33	-2.290.65	66.82	2,291.62	2,290.43	1.20	1,912.594		
200.00	200.00	155.69	200.00	0.31	4.23	178.33	-2.290.65	66.82	2,291.62	2,287.09	4.54	505.135		
300.00	300.00	255.69	300.00	0.53	8.23	178.33	-2.290.65	66.82	2,291.62	2,282.86	8.76	261.559		
400.00	400.00	355.69	400.00	0.76	12.23	178.33	-2.290.65	66.82	2,291.62	2,278.64	12.99	176.466		
500.00	500.00	455.69	500.00	0.98	16.23	178.33	-2.290.65	66.82	2,291.62	2,274.41	17.21	133.149		
600.00	600.00	555.69	600.00	1.21	20.23	178.33	-2.290.65	66.82	2,291.62	2,270.19	21.44	106.907		
700.00	700.00	655.69	700.00	1.43	24.23	178.33	-2.290.65	66.82	2,291.62	2,265.96	25.66	89.306		
800.00	800.00	755.69	800.00	1.66	28.23	178.33	-2.290.65	66.82	2,291.62	2,261.74	29.89	76.681		
900.00	900.00	855.69	900.00	1.88	32.23	178.33	-2.290.65	66.82	2,291.62	2,257.51	34.11	67.183		
1,000.00	1,000.00	955.69	1,000.00	2.11	36.23	178.33	-2.290.65	66.82	2,291.62	2,253.29	38.33	59.779 CC		
1,100.00	1,099.98	1,055.67	1,099.98	2.33	40.23	-158.06	-2.290.65	66.82	2,293.24	2,250.71	42.54	53.911 ES		
1,200.00	1,199.84	1,155.53	1,199.84	2.56	44.22	-158.07	-2.290.65	66.82	2,298.10	2,251.41	46.69	49.225		
1,300.00	1,299.45	1,255.14	1,299.45	2.79	48.21	-158.09	-2.290.65	66.82	2,306.19	2,255.43	50.76	45.431		
1,400.00	1,398.70	1,354.39	1,398.70	3.03	52.18	-158.12	-2.290.65	66.82	2,317.51	2,262.75	54.75	42.325		
1,500.00	1,497.47	1,453.16	1,497.47	3.30	56.13	-158.15	-2.290.65	66.82	2,332.05	2,273.40	58.65	39.765		
1,600.00	1,595.62	1,551.31	1,595.62	3.61	60.05	-158.19	-2.290.65	66.82	2,349.81	2,287.38	62.42	37.644		
1,700.00	1,693.06	1,648.75	1,693.06	3.95	63.95	-158.23	-2.290.65	66.82	2,370.77	2,304.70	66.07	35.883		
1,800.00	1,789.64	1,745.33	1,789.64	4.35	67.81	-158.28	-2.290.65	66.82	2,394.92	2,325.34	69.58	34.421		
1,900.00	1,885.30	1,840.99	1,885.30	4.80	71.64	-158.37	-2.290.65	66.82	2,422.16	2,349.08	73.08	33.144		
2,000.00	1,980.64	1,936.33	1,980.64	5.29	75.45	-158.63	-2.290.65	66.82	2,450.39	2,373.35	77.04	31.807		
2,100.00	2,075.99	2,031.68	2,075.99	5.80	79.27	-158.88	-2.290.65	66.82	2,478.66	2,397.65	81.00	30.600		
2,200.00	2,171.34	2,127.03	2,171.34	6.33	83.08	-159.13	-2.290.65	66.82	2,506.97	2,422.00	84.97	29.504		
2,300.00	2,266.68	2,222.37	2,266.68	6.87	86.89	-159.37	-2.290.65	66.82	2,535.33	2,446.38	88.94	28.505		
2,400.00	2,362.03	2,317.72	2,362.03	7.41	90.71	-159.61	-2.290.65	66.82	2,563.72	2,470.80	92.92	27.591		
2,500.00	2,457.38	2,413.07	2,457.38	7.97	94.52	-159.84	-2.290.65	66.82	2,592.16	2,495.26	96.89	26.752		
2,600.00	2,552.72	2,508.41	2,552.72	8.53	98.34	-160.07	-2.290.65	66.82	2,620.63	2,519.76	100.87	25.980		
2,700.00	2,648.07	2,603.76	2,648.07	9.10	102.15	-160.29	-2.290.65	66.82	2,649.14	2,544.29	104.85	25.266		
2,800.00	2,743.42	2,699.11	2,743.42	9.67	105.96	-160.50	-2.290.65	66.82	2,677.69	2,568.86	108.83	24.604		
2,900.00	2,838.77	2,794.46	2,838.77	10.24	109.78	-160.71	-2.290.65	66.82	2,706.27	2,593.47	112.81	23.990		
3,000.00	2,934.11	2,889.80	2,934.11	10.82	113.59	-160.92	-2.290.65	66.82	2,734.89	2,618.10	116.79	23.418		
3,100.00	3,029.46	2,985.15	3,029.46	11.40	117.41	-161.13	-2.290.65	66.82	2,763.54	2,642.77	120.77	22.883		
3,200.00	3,124.81	3,080.50	3,124.81	11.98	121.22	-161.32	-2.290.65	66.82	2,792.22	2,667.47	124.74	22.383		
3,300.00	3,220.15	3,175.84	3,220.15	12.56	125.03	-161.52	-2.290.65	66.82	2,820.93	2,692.21	128.72	21.915		
3,400.00	3,315.50	3,271.19	3,315.50	13.14	128.85	-161.71	-2.290.65	66.82	2,849.67	2,716.97	132.70	21.475		
3,500.00	3,410.85	3,366.54	3,410.85	13.73	132.66	-161.90	-2.290.65	66.82	2,878.44	2,741.76	136.68	21.060		
3,600.00	3,506.19	3,461.88	3,506.19	14.32	136.48	-162.08	-2.290.65	66.82	2,907.24	2,766.58	140.65	20.670		
3,700.00	3,601.54	3,557.23	3,601.54	14.91	140.29	-162.26	-2.290.65	66.82	2,936.06	2,791.43	144.63	20.301		
3,800.00	3,696.89	3,652.58	3,696.89	15.50	144.10	-162.44	-2.290.65	66.82	2,964.91	2,816.31	148.60	19.952		
3,900.00	3,792.24	3,747.93	3,792.24	16.09	147.92	-162.61	-2.290.65	66.82	2,993.79	2,841.21	152.57	19.622		
4,000.00	3,887.58	3,843.27	3,887.58	16.68	151.73	-162.78	-2.290.65	66.82	3,022.69	2,866.14	156.55	19.308		
4,100.00	3,982.93	3,938.62	3,982.93	17.27	155.54	-162.95	-2.290.65	66.82	3,051.61	2,891.09	160.52	19.011		
4,200.00	4,078.28	4,033.97	4,078.28	17.86	159.36	-163.11	-2.290.65	66.82	3,080.56	2,916.07	164.49	18.728		
4,300.00	4,173.62	4,129.31	4,173.62	18.45	163.17	-163.27	-2.290.65	66.82	3,109.53	2,941.07	168.46	18.458		
4,400.00	4,268.97	4,224.66	4,268.97	19.05	166.99	-163.43	-2.290.65	66.82	3,138.53	2,966.09	172.43	18.202		
4,500.00	4,364.32	4,320.01	4,364.32	19.64	170.80	-163.59	-2.290.65	66.82	3,167.54	2,991.14	176.40	17.957		
4,600.00	4,459.67	4,415.36	4,459.67	20.23	174.61	-163.74	-2.290.65	66.82	3,196.58	3,016.21	180.37	17.722		
4,700.00	4,555.01	4,510.70	4,555.01	20.83	178.43	-163.89	-2.290.65	66.82	3,225.63	3,041.30	184.34	17.499		
4,800.00	4,650.36	4,606.05	4,650.36	21.42	182.24	-164.04	-2.290.65	66.82	3,254.71	3,066.41	188.30	17.284		
4,900.00	4,745.71	4,701.40	4,745.71	22.02	186.06	-164.18	-2.290.65	66.82	3,283.81	3,091.54	192.27	17.079		
5,000.00	4,841.05	4,796.74	4,841.05	22.61	189.87	-164.32	-2.290.65	66.82	3,312.92	3,116.69	196.23	16.882		
5,100.00	4,936.40	4,892.09	4,936.40	23.21	193.68	-164.46	-2.290.65	66.82	3,342.05	3,141.85	200.20	16.694		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311M - OH - OH													Offset Site Error:
Survey Program: 100-UNKNOWN													Offset Well Error:
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,031.75	4,987.44	5,031.75	23.80	197.50	-164.60	-2,290.65	66.82	3,371.20	3,167.04	204.16	16.512	
5,300.00	5,127.09	5,082.78	5,127.09	24.40	201.31	-164.73	-2,290.65	66.82	3,400.37	3,192.25	208.13	16.338	
5,400.00	5,222.44	5,178.13	5,222.44	25.00	205.13	-164.86	-2,290.65	66.82	3,429.56	3,217.47	212.09	16.170	
5,500.00	5,317.79	5,273.48	5,317.79	25.59	208.94	-164.99	-2,290.65	66.82	3,458.76	3,242.71	216.05	16.009	
5,600.00	5,413.14	5,368.83	5,413.14	26.19	212.75	-165.12	-2,290.65	66.82	3,487.98	3,267.96	220.01	15.853	
5,700.00	5,508.48	5,464.17	5,508.48	26.78	216.57	-165.25	-2,290.65	66.82	3,517.21	3,293.20	224.01	15.701	
5,800.00	5,604.35	5,560.04	5,604.35	27.24	220.40	-165.51	-2,290.65	66.82	3,544.79	3,314.84	229.95	15.416	
5,900.00	5,701.15	5,656.84	5,701.15	27.65	224.27	-165.74	-2,290.65	66.82	3,569.12	3,333.39	235.74	15.140	
6,000.00	5,798.77	5,754.46	5,798.77	28.02	228.18	-165.93	-2,290.65	66.82	3,590.17	3,348.82	241.34	14.876	
6,100.00	5,897.08	5,852.77	5,897.08	28.35	232.11	-166.08	-2,290.65	66.82	3,607.90	3,361.14	246.75	14.622	
6,200.00	5,995.98	5,951.67	5,995.98	28.63	236.07	-166.21	-2,290.65	66.82	3,622.29	3,370.35	251.94	14.378	
6,300.00	6,095.33	6,051.02	6,095.33	28.87	240.04	-166.30	-2,290.65	66.82	3,633.32	3,376.44	256.88	14.144	
6,400.00	6,195.01	6,150.70	6,195.01	29.06	244.03	-166.37	-2,290.65	66.82	3,640.97	3,379.42	261.55	13.921	
6,500.00	6,294.91	6,250.60	6,294.91	29.20	248.02	-166.41	-2,290.65	66.82	3,645.24	3,379.30	265.94	13.707	
6,600.00	6,394.89	6,350.58	6,394.89	29.30	252.02	80.12	-2,290.65	66.82	3,646.15	3,376.11	270.04	13.502	
6,700.00	6,494.28	6,449.97	6,494.28	29.34	256.00	80.42	-2,290.65	66.82	3,644.39	3,370.40	273.99	13.301	
6,800.00	6,591.26	6,546.95	6,591.26	29.31	259.88	81.09	-2,290.65	66.82	3,640.41	3,362.61	277.80	13.105	
6,900.00	6,683.95	6,639.64	6,683.95	29.23	263.59	82.10	-2,290.65	66.82	3,634.53	3,353.01	281.52	12.910	
7,000.00	6,770.55	6,726.24	6,770.55	29.09	267.05	83.35	-2,290.65	66.82	3,627.26	3,342.05	285.21	12.718	
7,100.00	6,849.36	6,805.05	6,849.36	28.92	270.20	84.76	-2,290.65	66.82	3,619.23	3,330.38	288.85	12.530	
7,200.00	6,918.86	6,874.55	6,918.86	28.73	272.98	86.19	-2,290.65	66.82	3,611.15	3,318.78	292.37	12.351	
7,300.00	6,977.70	6,933.39	6,977.70	28.54	275.34	87.54	-2,290.65	66.82	3,603.74	3,308.07	295.67	12.189	
7,400.00	7,027.98	6,983.67	7,027.98	28.35	277.35	88.43	-2,290.65	66.82	3,597.80	3,299.10	298.70	12.045	
7,500.00	7,070.01	7,025.70	7,070.01	28.19	279.03	89.36	-2,290.65	66.82	3,593.80	3,292.16	301.64	11.914	
7,600.00	7,099.01	7,054.70	7,099.01	28.06	280.19	89.94	-2,290.65	66.82	3,592.06	3,287.81	304.25	11.806	
7,618.18	7,102.83	7,058.52	7,102.83	28.03	280.34	90.00	-2,290.65	66.82	3,592.01	3,286.85	305.16	11.771	
7,700.00	7,114.42	7,070.11	7,114.42	27.97	280.80	90.11	-2,290.65	66.82	3,592.92	3,286.40	306.53	11.721	
7,800.00	7,117.13	7,072.82	7,117.13	28.00	280.91	90.01	-2,290.65	66.82	3,596.56	3,288.08	308.48	11.659	
7,900.00	7,117.44	7,073.13	7,117.44	28.26	280.93	90.01	-2,290.65	66.82	3,602.98	3,292.45	310.53	11.603	
8,000.00	7,117.75	7,073.44	7,117.75	28.94	280.94	90.02	-2,290.65	66.82	3,612.15	3,299.41	312.74	11.550	
8,100.00	7,118.06	7,073.75	7,118.06	30.16	280.95	90.02	-2,290.65	66.82	3,624.06	3,308.97	315.09	11.502	
8,200.00	7,118.37	7,074.06	7,118.37	31.76	280.96	90.03	-2,290.65	66.82	3,638.68	3,321.14	317.54	11.459	
8,300.00	7,118.68	7,074.37	7,118.68	33.58	280.97	90.03	-2,290.65	66.82	3,655.98	3,335.89	320.08	11.422	
8,400.00	7,118.99	7,074.68	7,118.99	35.53	280.99	90.04	-2,290.65	66.82	3,675.91	3,353.21	322.70	11.391	
8,500.00	7,119.30	7,074.99	7,119.30	37.56	281.00	90.04	-2,290.65	66.82	3,698.45	3,373.07	325.38	11.367	
8,600.00	7,119.61	7,075.30	7,119.61	39.66	281.01	90.05	-2,290.65	66.82	3,723.53	3,395.42	328.11	11.348	
8,700.00	7,119.92	7,075.61	7,119.92	41.80	281.02	90.05	-2,290.65	66.82	3,751.12	3,420.23	330.89	11.337	
8,800.00	7,120.23	7,075.92	7,120.23	43.99	281.04	90.06	-2,290.65	66.82	3,781.14	3,447.45	333.70	11.331 SF	
8,900.00	7,120.54	7,076.23	7,120.54	46.22	281.05	90.06	-2,290.65	66.82	3,813.56	3,477.02	336.54	11.332	
9,000.00	7,120.85	7,076.54	7,120.85	48.47	281.06	90.07	-2,290.65	66.82	3,848.30	3,508.89	339.41	11.338	
9,100.00	7,121.16	7,076.85	7,121.16	50.75	281.07	90.07	-2,290.65	66.82	3,885.30	3,543.00	342.30	11.350	
9,200.00	7,121.47	7,077.16	7,121.47	53.05	281.09	90.08	-2,290.65	66.82	3,924.51	3,579.29	345.22	11.368	
9,300.00	7,121.78	7,077.47	7,121.78	55.37	281.10	90.08	-2,290.65	66.82	3,965.85	3,617.70	348.15	11.391	
9,400.00	7,122.09	7,077.78	7,122.09	57.71	281.11	90.09	-2,290.65	66.82	4,009.25	3,658.16	351.09	11.419	
9,500.00	7,122.40	7,078.09	7,122.40	60.06	281.12	90.09	-2,290.65	66.82	4,054.66	3,700.61	354.05	11.452	
9,600.00	7,122.71	7,078.40	7,122.71	62.43	281.14	90.10	-2,290.65	66.82	4,102.01	3,744.98	357.03	11.489	
9,700.00	7,123.02	7,078.71	7,123.02	64.80	281.15	90.10	-2,290.65	66.82	4,151.22	3,791.21	360.01	11.531	
9,800.00	7,123.33	7,079.02	7,123.33	67.19	281.16	90.11	-2,290.65	66.82	4,202.24	3,839.24	363.00	11.576	
9,900.00	7,123.65	7,079.34	7,123.65	69.59	281.17	90.11	-2,290.65	66.82	4,255.00	3,889.00	366.00	11.626	
10,000.00	7,123.96	7,079.65	7,123.96	71.99	281.19	90.12	-2,290.65	66.82	4,309.43	3,940.42	369.01	11.678	
10,100.00	7,124.27	7,079.96	7,124.27	74.40	281.20	90.12	-2,290.65	66.82	4,365.47	3,993.45	372.02	11.734	
10,200.00	7,124.58	7,080.27	7,124.58	76.82	281.21	90.13	-2,290.65	66.82	4,423.07	4,048.02	375.04	11.794	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	7,080.58	7,124.89	79.25	281.22	90.13	-2,290.65	66.82	4,482.15	4,104.08	378.07	11.855		
10,400.00	7,125.20	7,080.89	7,125.20	81.68	281.24	90.14	-2,290.65	66.82	4,542.67	4,161.57	381.10	11.920		
10,500.00	7,125.51	7,081.20	7,125.51	84.12	281.25	90.14	-2,290.65	66.82	4,604.57	4,220.43	384.14	11.987		
10,600.00	7,125.82	7,081.51	7,125.82	86.56	281.26	90.15	-2,290.65	66.82	4,667.78	4,280.61	387.18	12.056		
10,700.00	7,126.13	7,081.82	7,126.13	89.01	281.27	90.15	-2,290.65	66.82	4,732.27	4,342.05	390.22	12.127		
10,800.00	7,126.44	7,082.13	7,126.44	91.46	281.29	90.16	-2,290.65	66.82	4,797.97	4,404.71	393.27	12.200		
10,900.00	7,126.75	7,082.44	7,126.75	93.91	281.30	90.16	-2,290.65	66.82	4,864.85	4,468.53	396.32	12.275		
11,000.00	7,127.06	7,082.75	7,127.06	96.37	281.31	90.17	-2,290.65	66.82	4,932.84	4,533.47	399.37	12.351		
11,100.00	7,127.37	7,083.06	7,127.37	98.83	281.32	90.17	-2,290.65	66.82	5,001.91	4,599.48	402.43	12.429		
11,200.00	7,127.68	7,083.37	7,127.68	101.30	281.33	90.18	-2,290.65	66.82	5,072.01	4,666.52	405.49	12.508		
11,300.00	7,127.99	7,083.68	7,127.99	103.77	281.35	90.18	-2,290.65	66.82	5,143.09	4,734.54	408.55	12.589		
11,400.00	7,128.30	7,083.99	7,128.30	106.24	281.36	90.19	-2,290.65	66.82	5,215.13	4,803.52	411.61	12.670		
11,500.00	7,128.61	7,084.30	7,128.61	108.71	281.37	90.19	-2,290.65	66.82	5,288.08	4,873.40	414.68	12.752		
11,600.00	7,128.92	7,084.61	7,128.92	111.19	281.38	90.20	-2,290.65	66.82	5,361.90	4,944.15	417.75	12.835		
11,700.00	7,129.23	7,084.92	7,129.23	113.66	281.40	90.20	-2,290.65	66.82	5,436.55	5,015.73	420.82	12.919		
11,800.00	7,129.54	7,085.23	7,129.54	116.14	281.41	90.21	-2,290.65	66.82	5,512.01	5,088.12	423.89	13.003		
11,900.00	7,129.85	7,085.54	7,129.85	118.62	281.42	90.21	-2,290.65	66.82	5,588.24	5,161.28	426.96	13.088		
12,000.00	7,130.16	7,085.85	7,130.16	121.11	281.43	90.22	-2,290.65	66.82	5,665.21	5,235.17	430.04	13.174		
12,100.00	7,130.47	7,086.16	7,130.47	123.59	281.45	90.22	-2,290.65	66.82	5,742.89	5,309.78	433.11	13.260		
12,200.00	7,130.78	7,086.47	7,130.78	126.08	281.46	90.23	-2,290.65	66.82	5,821.25	5,385.06	436.19	13.346		
12,300.00	7,131.09	7,086.78	7,131.09	128.57	281.47	90.23	-2,290.65	66.82	5,900.26	5,460.99	439.27	13.432		
12,400.00	7,131.40	7,087.09	7,131.40	131.06	281.48	90.24	-2,290.65	66.82	5,979.91	5,537.56	442.35	13.519		
12,500.00	7,131.71	7,087.40	7,131.71	133.55	281.50	90.24	-2,290.65	66.82	6,060.15	5,614.72	445.43	13.605		
12,600.00	7,132.02	7,087.71	7,132.02	136.04	281.51	90.25	-2,290.65	66.82	6,140.98	5,692.47	448.51	13.692		
12,700.00	7,132.33	7,088.02	7,132.33	138.54	281.52	90.25	-2,290.65	66.82	6,222.36	5,770.77	451.60	13.779		
12,800.00	7,132.64	7,088.33	7,132.64	141.03	281.53	90.26	-2,290.65	66.82	6,304.28	5,849.60	454.68	13.865		
12,900.00	7,132.95	7,088.64	7,132.95	143.53	281.55	90.26	-2,290.65	66.82	6,386.72	5,928.95	457.76	13.952		
13,000.00	7,133.26	7,088.95	7,133.26	146.02	281.56	90.27	-2,290.65	66.82	6,469.65	6,008.80	460.85	14.039		
13,100.00	7,133.57	7,089.26	7,133.57	148.52	281.57	90.27	-2,290.65	66.82	6,553.05	6,089.12	463.94	14.125		
13,200.00	7,133.88	7,089.57	7,133.88	151.02	281.58	90.28	-2,290.65	66.82	6,636.92	6,169.89	467.02	14.211		
13,300.00	7,134.19	7,089.88	7,134.19	153.52	281.60	90.28	-2,290.65	66.82	6,721.22	6,251.11	470.11	14.297		
13,400.00	7,134.50	7,090.19	7,134.50	156.02	281.61	90.29	-2,290.65	66.82	6,805.95	6,332.75	473.20	14.383		
13,500.00	7,134.81	7,090.50	7,134.81	158.52	281.62	90.29	-2,290.65	66.82	6,891.09	6,414.80	476.29	14.468		
13,600.00	7,135.12	7,090.81	7,135.12	161.03	281.63	90.30	-2,290.65	66.82	6,976.63	6,497.25	479.38	14.554		
13,700.00	7,135.43	7,091.12	7,135.43	163.53	281.64	90.30	-2,290.65	66.82	7,062.54	6,580.07	482.47	14.638		
13,800.00	7,135.74	7,091.43	7,135.74	166.03	281.66	90.31	-2,290.65	66.82	7,148.82	6,663.26	485.56	14.723		
13,900.00	7,136.05	7,091.74	7,136.05	168.54	281.67	90.31	-2,290.65	66.82	7,235.46	6,746.81	488.65	14.807		
14,000.00	7,136.36	7,092.05	7,136.36	171.04	281.68	90.32	-2,290.65	66.82	7,322.43	6,830.69	491.74	14.891		
14,100.00	7,136.67	7,092.36	7,136.67	173.55	281.69	90.32	-2,290.65	66.82	7,409.73	6,914.90	494.83	14.974		
14,200.00	7,136.98	7,092.67	7,136.98	176.05	281.71	90.33	-2,290.65	66.82	7,497.35	6,999.43	497.93	15.057		
14,300.00	7,137.29	7,092.98	7,137.29	178.56	281.72	90.33	-2,290.65	66.82	7,585.28	7,084.26	501.02	15.140		
14,400.00	7,137.60	7,093.29	7,137.60	181.07	281.73	90.34	-2,290.65	66.82	7,673.50	7,169.39	504.11	15.222		
14,500.00	7,137.91	7,093.60	7,137.91	183.58	281.74	90.34	-2,290.65	66.82	7,762.01	7,254.80	507.21	15.303		
14,600.00	7,138.22	7,093.91	7,138.22	186.09	281.76	90.35	-2,290.65	66.82	7,850.80	7,340.49	510.30	15.385		
14,700.00	7,138.53	7,094.22	7,138.53	188.59	281.77	90.35	-2,290.65	66.82	7,939.85	7,426.45	513.40	15.465		
14,800.00	7,138.84	7,094.53	7,138.84	191.10	281.78	90.36	-2,290.65	66.82	8,029.15	7,512.66	516.49	15.546		
14,900.00	7,139.15	7,094.84	7,139.15	193.61	281.79	90.36	-2,290.65	66.82	8,118.71	7,599.12	519.59	15.625		
15,000.00	7,139.46	7,095.15	7,139.46	196.13	281.81	90.37	-2,290.65	66.82	8,208.51	7,685.83	522.68	15.705		
15,100.00	7,139.77	7,095.46	7,139.77	198.64	281.82	90.37	-2,290.65	66.82	8,298.54	7,772.76	525.78	15.783		
15,200.00	7,140.08	7,095.77	7,140.08	201.15	281.83	90.38	-2,290.65	66.82	8,388.80	7,859.92	528.88	15.862		
15,300.00	7,140.39	7,096.08	7,140.39	203.66	281.84	90.38	-2,290.65	66.82	8,479.28	7,947.30	531.97	15.939		
15,400.00	7,140.70	7,096.39	7,140.70	206.17	281.86	90.38	-2,290.65	66.82	8,569.97	8,034.89	535.07	16.016		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 311M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,500.00	7,141.01	7,096.70	7,141.01	208.68	281.87	90.39	-2,290.65	66.82	8,660.86	8,122.69	538.17	16.093		
15,600.00	7,141.32	7,097.01	7,141.32	211.20	281.88	90.39	-2,290.65	66.82	8,751.95	8,210.68	541.27	16.169		
15,700.00	7,141.63	7,097.32	7,141.63	213.71	281.89	90.40	-2,290.65	66.82	8,843.23	8,298.87	544.36	16.245		
15,800.00	7,141.94	7,097.63	7,141.94	216.22	281.91	90.40	-2,290.65	66.82	8,934.71	8,387.24	547.46	16.320		
15,900.00	7,142.25	7,097.94	7,142.25	218.74	281.92	90.41	-2,290.65	66.82	9,026.36	8,475.80	550.56	16.395		
16,000.00	7,142.56	7,098.25	7,142.56	221.25	281.93	90.41	-2,290.65	66.82	9,118.18	8,564.52	553.66	16.469		
16,100.00	7,142.87	7,098.56	7,142.87	223.77	281.94	90.42	-2,290.65	66.82	9,210.18	8,653.42	556.76	16.542		
16,200.00	7,143.18	7,098.87	7,143.18	226.28	281.95	90.42	-2,290.65	66.82	9,302.34	8,742.49	559.86	16.616		
16,300.00	7,143.49	7,099.18	7,143.49	228.80	281.97	90.43	-2,290.65	66.82	9,394.67	8,831.71	562.96	16.688		
16,400.00	7,143.80	7,099.49	7,143.80	231.31	281.98	90.43	-2,290.65	66.82	9,487.15	8,921.09	566.06	16.760		
16,500.00	7,144.11	7,099.80	7,144.11	233.83	281.99	90.44	-2,290.65	66.82	9,579.78	9,010.62	569.16	16.832		
16,600.00	7,144.42	7,100.11	7,144.42	236.34	282.00	90.44	-2,290.65	66.82	9,672.55	9,100.30	572.26	16.902		
16,700.00	7,144.73	7,100.42	7,144.73	238.86	282.02	90.45	-2,290.65	66.82	9,765.47	9,190.11	575.36	16.973		
16,800.00	7,145.05	7,100.74	7,145.05	241.37	282.03	90.45	-2,290.65	66.82	9,858.53	9,280.07	578.46	17.043		
16,900.00	7,145.36	7,101.05	7,145.36	243.89	282.04	90.46	-2,290.65	66.82	9,951.72	9,370.16	581.56	17.112		
17,000.00	7,145.67	7,101.36	7,145.67	246.41	282.05	90.46	-2,290.65	66.82	10,045.04	9,460.39	584.66	17.181		
17,100.00	7,145.98	7,101.67	7,145.98	248.93	282.07	90.47	-2,290.65	66.82	10,138.49	9,550.74	587.76	17.249		
17,200.00	7,146.29	7,101.98	7,146.29	251.44	282.08	90.47	-2,290.65	66.82	10,232.07	9,641.21	590.86	17.317		
17,300.00	7,146.60	7,102.29	7,146.60	253.96	282.09	90.48	-2,290.65	66.82	10,325.76	9,731.80	593.96	17.385		
17,400.00	7,146.91	7,102.60	7,146.91	256.48	282.10	90.48	-2,290.65	66.82	10,419.58	9,822.51	597.06	17.451		
17,430.36	7,147.00	7,102.69	7,147.00	257.24	282.11	90.49	-2,290.65	66.82	10,448.08	9,850.08	598.00	17.472		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 318M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.97	0.00	0.00	0.06	50.82	2,880.11	3,533.66	4,558.70					
100.00	100.00	102.97	100.00	0.08	2.12	50.82	2,880.11	3,533.66	4,558.70	4,556.50	2.20	2,069.234		
200.00	200.00	202.97	200.00	0.31	6.12	50.82	2,880.11	3,533.66	4,558.70	4,552.28	6.43	709.211		
300.00	300.00	302.97	300.00	0.53	10.12	50.82	2,880.11	3,533.66	4,558.70	4,548.05	10.65	427.942		
400.00	400.00	402.97	400.00	0.76	14.12	50.82	2,880.11	3,533.66	4,558.70	4,543.83	14.88	306.418		
500.00	500.00	502.97	500.00	0.98	18.12	50.82	2,880.11	3,533.66	4,558.70	4,539.60	19.10	238.649		
600.00	600.00	602.97	600.00	1.21	22.12	50.82	2,880.11	3,533.66	4,558.70	4,535.38	23.33	195.427		
700.00	700.00	702.97	700.00	1.43	26.12	50.82	2,880.11	3,533.66	4,558.70	4,531.15	27.55	165.460		
800.00	800.00	802.97	800.00	1.66	30.12	50.82	2,880.11	3,533.66	4,558.70	4,526.93	31.78	143.462		
900.00	900.00	902.97	900.00	1.88	34.12	50.82	2,880.11	3,533.66	4,558.70	4,522.70	36.00	126.626		
1,000.00	1,000.00	1,002.97	1,000.00	2.11	38.12	50.82	2,880.11	3,533.66	4,558.70	4,518.48	40.23	113.327		
1,100.00	1,099.98	1,102.95	1,099.98	2.33	42.12	74.47	2,880.11	3,533.66	4,558.24	4,513.79	44.45	102.555		
1,200.00	1,199.84	1,202.81	1,199.84	2.56	46.11	74.56	2,880.11	3,533.66	4,556.84	4,508.18	48.66	93.648		
1,300.00	1,299.45	1,302.42	1,299.45	2.79	50.10	74.71	2,880.11	3,533.66	4,554.52	4,501.65	52.86	86.155		
1,400.00	1,398.70	1,401.67	1,398.70	3.03	54.07	74.92	2,880.11	3,533.66	4,551.30	4,494.24	57.06	79.758		
1,500.00	1,497.47	1,500.44	1,497.47	3.30	58.02	75.18	2,880.11	3,533.66	4,547.22	4,485.96	61.26	74.226		
1,600.00	1,595.62	1,598.59	1,595.62	3.61	61.94	75.51	2,880.11	3,533.66	4,542.31	4,476.84	65.46	69.387		
1,700.00	1,693.06	1,696.03	1,693.06	3.95	65.84	75.89	2,880.11	3,533.66	4,536.61	4,466.94	69.67	65.114		
1,800.00	1,789.64	1,792.61	1,789.64	4.35	69.70	76.32	2,880.11	3,533.66	4,530.19	4,456.30	73.89	61.307		
1,900.00	1,885.30	1,888.27	1,885.30	4.80	73.53	76.77	2,880.11	3,533.66	4,523.12	4,444.98	78.14	57.886		
2,000.00	1,980.64	1,983.61	1,980.64	5.29	77.34	77.12	2,880.11	3,533.66	4,516.00	4,433.56	82.43	54.783		
2,100.00	2,075.99	2,078.96	2,075.99	5.80	81.16	77.48	2,880.11	3,533.66	4,509.06	4,422.31	86.75	51.976		
2,200.00	2,171.34	2,174.31	2,171.34	6.33	84.97	77.84	2,880.11	3,533.66	4,502.32	4,411.23	91.09	49.428		
2,300.00	2,266.68	2,269.65	2,266.68	6.87	88.79	78.20	2,880.11	3,533.66	4,495.77	4,400.33	95.44	47.107		
2,400.00	2,362.03	2,365.00	2,362.03	7.41	92.60	78.56	2,880.11	3,533.66	4,489.41	4,389.61	99.80	44.985		
2,500.00	2,457.38	2,460.35	2,457.38	7.97	96.41	78.92	2,880.11	3,533.66	4,483.25	4,379.08	104.17	43.039		
2,600.00	2,552.72	2,555.69	2,552.72	8.53	100.23	79.28	2,880.11	3,533.66	4,477.28	4,368.73	108.54	41.249		
2,700.00	2,648.07	2,651.04	2,648.07	9.10	104.04	79.64	2,880.11	3,533.66	4,471.50	4,358.58	112.93	39.596		
2,800.00	2,743.42	2,746.39	2,743.42	9.67	107.86	80.00	2,880.11	3,533.66	4,465.93	4,348.61	117.32	38.068		
2,900.00	2,838.77	2,841.74	2,838.77	10.24	111.67	80.37	2,880.11	3,533.66	4,460.54	4,338.84	121.71	36.650		
3,000.00	2,934.11	2,937.08	2,934.11	10.82	115.48	80.73	2,880.11	3,533.66	4,455.36	4,329.26	126.10	35.331		
3,100.00	3,029.46	3,032.43	3,029.46	11.40	119.30	81.10	2,880.11	3,533.66	4,450.37	4,319.87	130.50	34.101		
3,200.00	3,124.81	3,127.78	3,124.81	11.98	123.11	81.47	2,880.11	3,533.66	4,445.59	4,310.68	134.91	32.953		
3,300.00	3,220.15	3,223.12	3,220.15	12.56	126.92	81.83	2,880.11	3,533.66	4,441.00	4,301.69	139.31	31.878		
3,400.00	3,315.50	3,318.47	3,315.50	13.14	130.74	82.20	2,880.11	3,533.66	4,436.61	4,292.89	143.72	30.870		
3,500.00	3,410.85	3,413.82	3,410.85	13.73	134.55	82.57	2,880.11	3,533.66	4,432.43	4,284.30	148.13	29.923		
3,600.00	3,506.19	3,509.16	3,506.19	14.32	138.37	82.94	2,880.11	3,533.66	4,428.44	4,275.90	152.54	29.031		
3,700.00	3,601.54	3,604.51	3,601.54	14.91	142.18	83.31	2,880.11	3,533.66	4,424.66	4,267.71	156.95	28.191		
3,800.00	3,696.89	3,699.86	3,696.89	15.50	145.99	83.68	2,880.11	3,533.66	4,421.08	4,259.71	161.37	27.398		
3,900.00	3,792.24	3,795.21	3,792.24	16.09	149.81	84.05	2,880.11	3,533.66	4,417.70	4,251.92	165.78	26.648		
4,000.00	3,887.58	3,890.55	3,887.58	16.68	153.62	84.42	2,880.11	3,533.66	4,414.53	4,244.33	170.20	25.938		
4,100.00	3,982.93	3,985.90	3,982.93	17.27	157.44	84.79	2,880.11	3,533.66	4,411.56	4,236.94	174.61	25.265		
4,200.00	4,078.28	4,081.25	4,078.28	17.86	161.25	85.16	2,880.11	3,533.66	4,408.79	4,229.76	179.03	24.626		
4,300.00	4,173.62	4,176.59	4,173.62	18.45	165.06	85.54	2,880.11	3,533.66	4,406.23	4,222.78	183.45	24.019		
4,400.00	4,268.97	4,271.94	4,268.97	19.05	168.88	85.91	2,880.11	3,533.66	4,403.87	4,216.00	187.86	23.442		
4,500.00	4,364.32	4,367.29	4,364.32	19.64	172.69	86.28	2,880.11	3,533.66	4,401.72	4,209.44	192.28	22.892		
4,600.00	4,459.67	4,462.64	4,459.67	20.23	176.51	86.66	2,880.11	3,533.66	4,399.77	4,203.07	196.70	22.368		
4,700.00	4,555.01	4,557.98	4,555.01	20.83	180.32	87.03	2,880.11	3,533.66	4,398.03	4,196.92	201.12	21.868		
4,800.00	4,650.36	4,653.33	4,650.36	21.42	184.13	87.41	2,880.11	3,533.66	4,396.50	4,190.96	205.53	21.391		
4,900.00	4,745.71	4,748.68	4,745.71	22.02	187.95	87.78	2,880.11	3,533.66	4,395.17	4,185.22	209.95	20.935		
5,000.00	4,841.05	4,844.02	4,841.05	22.61	191.76	88.15	2,880.11	3,533.66	4,394.05	4,179.68	214.36	20.498		
5,100.00	4,936.40	4,939.37	4,936.40	23.21	195.57	88.53	2,880.11	3,533.66	4,393.13	4,174.36	218.78	20.081		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 318M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,031.75	5,034.72	5,031.75	23.80	199.39	88.90	2,880.11	3,533.66	4,392.42	4,169.23	223.19	19.680		
5,300.00	5,127.09	5,130.06	5,127.09	24.40	203.20	89.28	2,880.11	3,533.66	4,391.92	4,164.32	227.60	19.297		
5,400.00	5,222.44	5,225.41	5,222.44	25.00	207.02	89.65	2,880.11	3,533.66	4,391.63	4,159.61	232.01	18.929		
5,492.39	5,310.53	5,313.50	5,310.53	25.55	210.54	90.00	2,880.11	3,533.66	4,391.54	4,155.45	236.08	18.602		
5,500.00	5,317.79	5,320.76	5,317.79	25.59	210.83	90.03	2,880.11	3,533.66	4,391.54	4,155.12	236.42	18.575		
5,600.00	5,413.14	5,416.11	5,413.14	26.19	214.64	90.40	2,880.11	3,533.66	4,391.66	4,150.83	240.83	18.236		
5,700.00	5,508.48	5,511.45	5,508.48	26.78	218.46	90.78	2,880.11	3,533.66	4,391.98	4,146.75	245.23	17.909		
5,800.00	5,604.35	5,607.32	5,604.35	27.24	222.29	91.14	2,880.11	3,533.66	4,392.48	4,142.96	249.52	17.604		
5,900.00	5,701.15	5,704.12	5,701.15	27.65	226.16	91.47	2,880.11	3,533.66	4,393.07	4,139.27	253.80	17.309		
6,000.00	5,798.77	5,801.74	5,798.77	28.02	230.07	91.76	2,880.11	3,533.66	4,393.70	4,135.63	258.07	17.025		
6,100.00	5,897.08	5,900.05	5,897.08	28.35	234.00	92.01	2,880.11	3,533.66	4,394.31	4,131.98	262.33	16.751		
6,200.00	5,995.98	5,998.95	5,995.98	28.63	237.96	92.21	2,880.11	3,533.66	4,394.86	4,128.30	266.56	16.487		
6,300.00	6,095.33	6,098.30	6,095.33	28.87	241.93	92.36	2,880.11	3,533.66	4,395.31	4,124.54	270.77	16.233		
6,400.00	6,195.01	6,197.98	6,195.01	29.06	245.92	92.47	2,880.11	3,533.66	4,395.65	4,120.70	274.95	15.987		
6,500.00	6,294.91	6,297.88	6,294.91	29.20	249.92	92.53	2,880.11	3,533.66	4,395.84	4,116.75	279.09	15.751		
6,600.00	6,394.89	6,397.86	6,394.89	29.30	253.91	-20.94	2,880.11	3,533.66	4,395.51	4,112.46	283.05	15.529		
6,700.00	6,494.28	6,497.25	6,494.28	29.34	257.89	-21.27	2,880.11	3,533.66	4,385.87	4,102.38	283.50	15.471		
6,800.00	6,591.26	6,594.23	6,591.26	29.31	261.77	-22.07	2,880.11	3,533.66	4,363.42	4,084.38	279.04	15.637		
6,900.00	6,683.95	6,686.92	6,683.95	29.23	265.48	-23.41	2,880.11	3,533.66	4,328.63	4,058.57	270.07	16.028		
7,000.00	6,770.55	6,773.52	6,770.55	29.09	268.94	-25.41	2,880.11	3,533.66	4,282.22	4,024.66	257.55	16.627		
7,100.00	6,849.36	6,852.33	6,849.36	28.92	272.09	-28.28	2,880.11	3,533.66	4,225.14	3,981.66	243.48	17.353		
7,200.00	6,918.86	6,921.83	6,918.86	28.73	274.87	-32.35	2,880.11	3,533.66	4,158.58	3,927.18	231.40	17.972		
7,300.00	6,977.70	6,980.67	6,977.70	28.54	277.23	-38.11	2,880.11	3,533.66	4,083.91	3,857.01	226.91	17.998		
7,400.00	7,027.98	7,030.95	7,027.98	28.35	279.24	-41.44	2,880.11	3,533.66	4,004.26	3,773.58	230.68	17.358		
7,500.00	7,070.01	7,072.98	7,070.01	28.19	280.92	-50.81	2,880.11	3,533.66	3,921.03	3,674.14	246.89	15.882		
7,600.00	7,099.01	7,101.98	7,099.01	28.06	282.08	-63.61	2,880.11	3,533.66	3,833.61	3,558.01	275.60	13.910		
7,700.00	7,114.42	7,117.39	7,114.42	27.97	282.70	-79.58	2,880.11	3,533.66	3,743.77	3,443.03	300.74	12.449		
7,800.00	7,117.13	7,120.10	7,117.13	28.00	282.80	-89.63	2,880.11	3,533.66	3,653.29	3,347.07	306.22	11.930		
7,900.00	7,117.44	7,120.41	7,117.44	28.26	282.82	-89.64	2,880.11	3,533.66	3,563.26	3,255.56	307.71	11.580		
8,000.00	7,117.75	7,120.72	7,117.75	28.94	282.83	-89.65	2,880.11	3,533.66	3,473.77	3,164.43	309.35	11.229		
8,100.00	7,118.06	7,121.03	7,118.06	30.16	282.84	-89.66	2,880.11	3,533.66	3,384.88	3,073.76	311.12	10.880		
8,200.00	7,118.37	7,121.34	7,118.37	31.76	282.85	-89.67	2,880.11	3,533.66	3,296.61	2,983.61	313.00	10.532		
8,300.00	7,118.68	7,121.65	7,118.68	33.58	282.87	-89.68	2,880.11	3,533.66	3,209.04	2,894.06	314.98	10.188		
8,400.00	7,118.99	7,121.96	7,118.99	35.53	282.88	-89.69	2,880.11	3,533.66	3,122.21	2,805.19	317.02	9.849		
8,500.00	7,119.30	7,122.27	7,119.30	37.56	282.89	-89.71	2,880.11	3,533.66	3,036.20	2,717.06	319.13	9.514		
8,600.00	7,119.61	7,122.58	7,119.61	39.66	282.90	-89.72	2,880.11	3,533.66	2,951.06	2,629.77	321.29	9.185		
8,700.00	7,119.92	7,122.89	7,119.92	41.80	282.92	-89.73	2,880.11	3,533.66	2,866.89	2,543.39	323.50	8.862		
8,800.00	7,120.23	7,123.20	7,120.23	43.99	282.93	-89.74	2,880.11	3,533.66	2,783.76	2,458.02	325.74	8.546		
8,900.00	7,120.54	7,123.51	7,120.54	46.22	282.94	-89.75	2,880.11	3,533.66	2,701.78	2,373.76	328.01	8.237		
9,000.00	7,120.85	7,123.82	7,120.85	48.47	282.95	-89.76	2,880.11	3,533.66	2,621.04	2,290.73	330.31	7.935		
9,100.00	7,121.16	7,124.13	7,121.16	50.75	282.97	-89.77	2,880.11	3,533.66	2,541.68	2,209.04	332.64	7.641		
9,200.00	7,121.47	7,124.44	7,121.47	53.05	282.98	-89.79	2,880.11	3,533.66	2,463.82	2,128.84	334.98	7.355		
9,300.00	7,121.78	7,124.75	7,121.78	55.37	282.99	-89.80	2,880.11	3,533.66	2,387.61	2,050.27	337.34	7.078		
9,400.00	7,122.09	7,125.06	7,122.09	57.71	283.00	-89.81	2,880.11	3,533.66	2,313.22	1,973.50	339.72	6.809		
9,500.00	7,122.40	7,125.37	7,122.40	60.06	283.01	-89.82	2,880.11	3,533.66	2,240.81	1,898.70	342.11	6.550		
9,600.00	7,122.71	7,125.68	7,122.71	62.43	283.03	-89.83	2,880.11	3,533.66	2,170.60	1,826.09	344.51	6.301		
9,700.00	7,123.02	7,125.99	7,123.02	64.80	283.04	-89.84	2,880.11	3,533.66	2,102.80	1,755.88	346.92	6.061		
9,800.00	7,123.33	7,126.30	7,123.33	67.19	283.05	-89.85	2,880.11	3,533.66	2,037.66	1,688.31	349.35	5.833		
9,900.00	7,123.65	7,126.62	7,123.65	69.59	283.06	-89.86	2,880.11	3,533.66	1,975.43	1,623.66	351.78	5.616		
10,000.00	7,123.96	7,126.93	7,123.96	71.99	283.08	-89.88	2,880.11	3,533.66	1,916.40	1,562.19	354.21	5.410		
10,100.00	7,124.27	7,127.24	7,124.27	74.40	283.09	-89.89	2,880.11	3,533.66	1,860.88	1,504.22	356.66	5.218		
10,200.00	7,124.58	7,127.55	7,124.58	76.82	283.10	-89.90	2,880.11	3,533.66	1,809.18	1,450.07	359.11	5.038		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 318M - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300.00	7,124.89	7,127.86	7,124.89	79.25	283.11	-89.91	2,880.11	3,533.66	1,761.65	1,400.09	361.57	4.872			
10,400.00	7,125.20	7,128.17	7,125.20	81.68	283.13	-89.92	2,880.11	3,533.66	1,718.63	1,354.60	364.03	4.721			
10,500.00	7,125.51	7,128.48	7,125.51	84.12	283.14	-89.93	2,880.11	3,533.66	1,680.47	1,313.97	366.50	4.585			
10,600.00	7,125.82	7,128.79	7,125.82	86.56	283.15	-89.94	2,880.11	3,533.66	1,647.49	1,278.53	368.97	4.465			
10,700.00	7,126.13	7,129.10	7,126.13	89.01	283.16	-89.95	2,880.11	3,533.66	1,620.03	1,248.59	371.44	4.361			
10,800.00	7,126.44	7,129.41	7,126.44	91.46	283.18	-89.97	2,880.11	3,533.66	1,598.37	1,224.45	373.92	4.275			
10,900.00	7,126.75	7,129.72	7,126.75	93.91	283.19	-89.98	2,880.11	3,533.66	1,582.74	1,206.34	376.40	4.205			
11,000.00	7,127.06	7,130.03	7,127.06	96.37	283.20	-89.99	2,880.11	3,533.66	1,573.32	1,194.43	378.88	4.152			
11,098.65	7,127.36	7,130.33	7,127.36	98.80	283.21	-90.00	2,880.11	3,533.66	1,570.22	1,188.88	381.34	4.118 CC			
11,100.00	7,127.37	7,130.34	7,127.37	98.83	283.21	-90.00	2,880.11	3,533.66	1,570.22	1,188.85	381.37	4.117 ES			
11,200.00	7,127.68	7,130.65	7,127.68	101.30	283.23	-90.01	2,880.11	3,533.66	1,573.49	1,189.63	383.86	4.099			
11,300.00	7,127.99	7,130.96	7,127.99	103.77	283.24	-90.02	2,880.11	3,533.66	1,583.08	1,196.72	386.35	4.097 SF			
11,400.00	7,128.30	7,131.27	7,128.30	106.24	283.25	-90.03	2,880.11	3,533.66	1,598.88	1,210.03	388.85	4.112			
11,500.00	7,128.61	7,131.58	7,128.61	108.71	283.26	-90.05	2,880.11	3,533.66	1,620.70	1,229.36	391.34	4.141			
11,600.00	7,128.92	7,131.89	7,128.92	111.19	283.28	-90.06	2,880.11	3,533.66	1,648.32	1,254.47	393.84	4.185			
11,700.00	7,129.23	7,132.20	7,129.23	113.66	283.29	-90.07	2,880.11	3,533.66	1,681.43	1,285.09	396.34	4.242			
11,800.00	7,129.54	7,132.51	7,129.54	116.14	283.30	-90.08	2,880.11	3,533.66	1,719.73	1,320.89	398.85	4.312			
11,900.00	7,129.85	7,132.82	7,129.85	118.62	283.31	-90.09	2,880.11	3,533.66	1,762.88	1,361.53	401.35	4.392			
12,000.00	7,130.16	7,133.13	7,130.16	121.11	283.33	-90.10	2,880.11	3,533.66	1,810.53	1,406.68	403.85	4.483			
12,100.00	7,130.47	7,133.44	7,130.47	123.59	283.34	-90.11	2,880.11	3,533.66	1,862.34	1,455.98	406.36	4.583			
12,200.00	7,130.78	7,133.75	7,130.78	126.08	283.35	-90.12	2,880.11	3,533.66	1,917.96	1,509.09	408.87	4.691			
12,300.00	7,131.09	7,134.06	7,131.09	128.57	283.36	-90.14	2,880.11	3,533.66	1,977.08	1,565.70	411.38	4.806			
12,400.00	7,131.40	7,134.37	7,131.40	131.06	283.37	-90.15	2,880.11	3,533.66	2,039.39	1,625.50	413.89	4.927			
12,500.00	7,131.71	7,134.68	7,131.71	133.55	283.39	-90.16	2,880.11	3,533.66	2,104.61	1,688.21	416.40	5.054			
12,600.00	7,132.02	7,134.99	7,132.02	136.04	283.40	-90.17	2,880.11	3,533.66	2,172.47	1,753.56	418.91	5.186			
12,700.00	7,132.33	7,135.30	7,132.33	138.54	283.41	-90.18	2,880.11	3,533.66	2,242.74	1,821.32	421.42	5.322			
12,800.00	7,132.64	7,135.61	7,132.64	141.03	283.42	-90.19	2,880.11	3,533.66	2,315.20	1,891.27	423.94	5.461			
12,900.00	7,132.95	7,135.92	7,132.95	143.53	283.44	-90.20	2,880.11	3,533.66	2,389.65	1,963.20	426.45	5.604			
13,000.00	7,133.26	7,136.23	7,133.26	146.02	283.45	-90.22	2,880.11	3,533.66	2,465.91	2,036.94	428.97	5.748			
13,100.00	7,133.57	7,136.54	7,133.57	148.52	283.46	-90.23	2,880.11	3,533.66	2,543.81	2,112.33	431.48	5.895			
13,200.00	7,133.88	7,136.85	7,133.88	151.02	283.47	-90.24	2,880.11	3,533.66	2,623.21	2,189.21	434.00	6.044			
13,300.00	7,134.19	7,137.16	7,134.19	153.52	283.49	-90.25	2,880.11	3,533.66	2,703.98	2,267.46	436.52	6.194			
13,400.00	7,134.50	7,137.47	7,134.50	156.02	283.50	-90.26	2,880.11	3,533.66	2,786.00	2,346.96	439.04	6.346			
13,500.00	7,134.81	7,137.78	7,134.81	158.52	283.51	-90.27	2,880.11	3,533.66	2,869.15	2,427.60	441.56	6.498			
13,600.00	7,135.12	7,138.09	7,135.12	161.03	283.52	-90.28	2,880.11	3,533.66	2,953.35	2,509.28	444.08	6.651			
13,700.00	7,135.43	7,138.40	7,135.43	163.53	283.54	-90.29	2,880.11	3,533.66	3,038.51	2,591.92	446.60	6.804			
13,800.00	7,135.74	7,138.71	7,135.74	166.03	283.55	-90.31	2,880.11	3,533.66	3,124.55	2,675.43	449.12	6.957			
13,900.00	7,136.05	7,139.02	7,136.05	168.54	283.56	-90.32	2,880.11	3,533.66	3,211.40	2,759.76	451.64	7.111			
14,000.00	7,136.36	7,139.33	7,136.36	171.04	283.57	-90.33	2,880.11	3,533.66	3,298.99	2,844.83	454.16	7.264			
14,100.00	7,136.67	7,139.64	7,136.67	173.55	283.59	-90.34	2,880.11	3,533.66	3,387.27	2,930.59	456.68	7.417			
14,200.00	7,136.98	7,139.95	7,136.98	176.05	283.60	-90.35	2,880.11	3,533.66	3,476.19	3,016.98	459.21	7.570			
14,300.00	7,137.29	7,140.26	7,137.29	178.56	283.61	-90.36	2,880.11	3,533.66	3,565.69	3,103.96	461.73	7.722			
14,400.00	7,137.60	7,140.57	7,137.60	181.07	283.62	-90.37	2,880.11	3,533.66	3,655.74	3,191.48	464.25	7.874			
14,500.00	7,137.91	7,140.88	7,137.91	183.58	283.64	-90.38	2,880.11	3,533.66	3,746.29	3,279.51	466.78	8.026			
14,600.00	7,138.22	7,141.19	7,138.22	186.09	283.65	-90.40	2,880.11	3,533.66	3,837.31	3,368.01	469.30	8.177			
14,700.00	7,138.53	7,141.50	7,138.53	188.59	283.66	-90.41	2,880.11	3,533.66	3,928.77	3,456.94	471.83	8.327			
14,800.00	7,138.84	7,141.81	7,138.84	191.10	283.67	-90.42	2,880.11	3,533.66	4,020.63	3,546.28	474.35	8.476			
14,900.00	7,139.15	7,142.12	7,139.15	193.61	283.68	-90.43	2,880.11	3,533.66	4,112.88	3,636.00	476.88	8.625			
15,000.00	7,139.46	7,142.43	7,139.46	196.13	283.70	-90.44	2,880.11	3,533.66	4,205.47	3,726.07	479.40	8.772			
15,100.00	7,139.77	7,142.74	7,139.77	198.64	283.71	-90.45	2,880.11	3,533.66	4,298.40	3,816.47	481.93	8.919			
15,200.00	7,140.08	7,143.05	7,140.08	201.15	283.72	-90.46	2,880.11	3,533.66	4,391.64	3,907.19	484.46	9.065			
15,300.00	7,140.39	7,143.36	7,140.39	203.66	283.73	-90.48	2,880.11	3,533.66	4,485.18	3,998.19	486.98	9.210			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 318M - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	7,140.70	7,143.67	7,140.70	206.17	283.75	-90.49	2,880.11	3,533.66	4,578.98	4,089.47	489.51	9.354	
15,500.00	7,141.01	7,143.98	7,141.01	208.68	283.76	-90.50	2,880.11	3,533.66	4,673.04	4,181.00	492.04	9.497	
15,600.00	7,141.32	7,144.29	7,141.32	211.20	283.77	-90.51	2,880.11	3,533.66	4,767.35	4,272.78	494.57	9.639	
15,700.00	7,141.63	7,144.60	7,141.63	213.71	283.78	-90.52	2,880.11	3,533.66	4,861.88	4,364.78	497.09	9.781	
15,800.00	7,141.94	7,144.91	7,141.94	216.22	283.80	-90.53	2,880.11	3,533.66	4,956.62	4,457.00	499.62	9.921	
15,900.00	7,142.25	7,145.22	7,142.25	218.74	283.81	-90.54	2,880.11	3,533.66	5,051.57	4,549.42	502.15	10.060	
16,000.00	7,142.56	7,145.53	7,142.56	221.25	283.82	-90.55	2,880.11	3,533.66	5,146.71	4,642.03	504.68	10.198	
16,100.00	7,142.87	7,145.84	7,142.87	223.77	283.83	-90.57	2,880.11	3,533.66	5,242.03	4,734.82	507.21	10.335	
16,200.00	7,143.18	7,146.15	7,143.18	226.28	283.85	-90.58	2,880.11	3,533.66	5,337.52	4,827.79	509.74	10.471	
16,300.00	7,143.49	7,146.46	7,143.49	228.80	283.86	-90.59	2,880.11	3,533.66	5,433.18	4,920.91	512.26	10.606	
16,400.00	7,143.80	7,146.77	7,143.80	231.31	283.87	-90.60	2,880.11	3,533.66	5,528.99	5,014.19	514.79	10.740	
16,500.00	7,144.11	7,147.08	7,144.11	233.83	283.88	-90.61	2,880.11	3,533.66	5,624.94	5,107.62	517.32	10.873	
16,600.00	7,144.42	7,147.39	7,144.42	236.34	283.90	-90.62	2,880.11	3,533.66	5,721.03	5,201.18	519.85	11.005	
16,700.00	7,144.73	7,147.70	7,144.73	238.86	283.91	-90.63	2,880.11	3,533.66	5,817.26	5,294.87	522.38	11.136	
16,800.00	7,145.05	7,148.02	7,145.05	241.37	283.92	-90.65	2,880.11	3,533.66	5,913.60	5,388.69	524.91	11.266	
16,900.00	7,145.36	7,148.33	7,145.36	243.89	283.93	-90.66	2,880.11	3,533.66	6,010.07	5,482.63	527.44	11.395	
17,000.00	7,145.67	7,148.64	7,145.67	246.41	283.95	-90.67	2,880.11	3,533.66	6,106.66	5,576.68	529.97	11.523	
17,100.00	7,145.98	7,148.95	7,145.98	248.93	283.96	-90.68	2,880.11	3,533.66	6,203.35	5,670.84	532.50	11.649	
17,200.00	7,146.29	7,149.26	7,146.29	251.44	283.97	-90.69	2,880.11	3,533.66	6,300.14	5,765.11	535.03	11.775	
17,300.00	7,146.60	7,149.57	7,146.60	253.96	283.98	-90.70	2,880.11	3,533.66	6,397.03	5,859.47	537.56	11.900	
17,400.00	7,146.91	7,149.88	7,146.91	256.48	284.00	-90.71	2,880.11	3,533.66	6,494.02	5,953.93	540.09	12.024	
17,430.36	7,147.00	7,149.97	7,147.00	257.24	284.00	-90.72	2,880.11	3,533.66	6,523.48	5,982.62	540.86	12.061	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 319 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	11.42	0.00	0.00	64.03	3,085.24	6,333.28	7,044.80				
100.00	100.00	88.58	100.00	0.08	1.77	64.03	3,085.24	6,333.28	7,044.80	7,042.94	1.86	3,795.871	
200.00	200.00	188.58	200.00	0.31	5.54	64.03	3,085.24	6,333.28	7,044.80	7,038.94	5.85	1,203.775	
300.00	300.00	288.58	300.00	0.53	9.54	64.03	3,085.24	6,333.28	7,044.80	7,034.72	10.08	699.095	
400.00	400.00	388.58	400.00	0.76	13.54	64.03	3,085.24	6,333.28	7,044.80	7,030.49	14.30	492.582	
500.00	500.00	488.58	500.00	0.98	17.54	64.03	3,085.24	6,333.28	7,044.80	7,026.27	18.53	380.254	
600.00	600.00	588.58	600.00	1.21	21.54	64.03	3,085.24	6,333.28	7,044.80	7,022.04	22.75	309.643	
700.00	700.00	688.58	700.00	1.43	25.54	64.03	3,085.24	6,333.28	7,044.80	7,017.82	26.98	261.150	
800.00	800.00	788.58	800.00	1.66	29.54	64.03	3,085.24	6,333.28	7,044.80	7,013.59	31.20	225.789	
900.00	900.00	888.58	900.00	1.88	33.54	64.03	3,085.24	6,333.28	7,044.80	7,009.37	35.43	198.862	
1,000.00	1,000.00	988.58	1,000.00	2.11	37.54	64.03	3,085.24	6,333.28	7,044.80	7,005.15	39.65	177.673	
1,100.00	1,099.98	1,088.56	1,099.98	2.33	41.54	87.66	3,085.24	6,333.28	7,044.72	7,000.85	43.87	160.572	
1,200.00	1,199.84	1,188.42	1,199.84	2.56	45.54	87.71	3,085.24	6,333.28	7,044.51	6,996.42	48.09	146.484	
1,300.00	1,299.45	1,288.03	1,299.45	2.79	49.52	87.78	3,085.24	6,333.28	7,044.17	6,991.86	52.31	134.672	
1,400.00	1,398.70	1,387.28	1,398.70	3.03	53.49	87.89	3,085.24	6,333.28	7,043.70	6,987.18	56.52	124.619	
1,500.00	1,497.47	1,486.05	1,497.47	3.30	57.44	88.03	3,085.24	6,333.28	7,043.14	6,982.40	60.74	115.950	
1,600.00	1,595.62	1,584.20	1,595.62	3.61	61.37	88.19	3,085.24	6,333.28	7,042.50	6,977.53	64.97	108.391	
1,700.00	1,693.06	1,681.64	1,693.06	3.95	65.27	88.39	3,085.24	6,333.28	7,041.81	6,972.59	69.22	101.735	
1,800.00	1,789.64	1,778.22	1,789.64	4.35	69.13	88.60	3,085.24	6,333.28	7,041.11	6,967.63	73.48	95.826	
1,900.00	1,885.30	1,873.88	1,885.30	4.80	72.96	88.84	3,085.24	6,333.28	7,040.43	6,962.67	77.76	90.544	
2,000.00	1,980.64	1,969.22	1,980.64	5.29	76.77	89.07	3,085.24	6,333.28	7,039.85	6,957.79	82.06	85.789	
2,100.00	2,075.99	2,064.57	2,075.99	5.80	80.58	89.31	3,085.24	6,333.28	7,039.41	6,953.02	86.38	81.490	
2,200.00	2,171.34	2,159.92	2,171.34	6.33	84.40	89.54	3,085.24	6,333.28	7,039.09	6,948.37	90.72	77.588	
2,300.00	2,266.68	2,255.26	2,266.68	6.87	88.21	89.78	3,085.24	6,333.28	7,038.90	6,943.83	95.08	74.035	
2,395.54	2,357.78	2,346.36	2,357.78	7.39	91.85	90.00	3,085.24	6,333.28	7,038.84	6,939.60	99.24	70.926	
2,400.00	2,362.03	2,350.61	2,362.03	7.41	92.02	90.01	3,085.24	6,333.28	7,038.84	6,939.41	99.44	70.787	
2,500.00	2,457.38	2,445.96	2,457.38	7.97	95.84	90.24	3,085.24	6,333.28	7,038.91	6,935.11	103.80	67.809	
2,600.00	2,552.72	2,541.30	2,552.72	8.53	99.65	90.48	3,085.24	6,333.28	7,039.11	6,930.93	108.18	65.069	
2,700.00	2,648.07	2,636.65	2,648.07	9.10	103.47	90.71	3,085.24	6,333.28	7,039.44	6,926.88	112.56	62.540	
2,800.00	2,743.42	2,732.00	2,743.42	9.67	107.28	90.95	3,085.24	6,333.28	7,039.90	6,922.96	116.94	60.200	
2,900.00	2,838.77	2,827.35	2,838.77	10.24	111.09	91.18	3,085.24	6,333.28	7,040.49	6,919.16	121.33	58.029	
3,000.00	2,934.11	2,922.69	2,934.11	10.82	114.91	91.41	3,085.24	6,333.28	7,041.20	6,915.49	125.72	56.009	
3,100.00	3,029.46	3,018.04	3,029.46	11.40	118.72	91.65	3,085.24	6,333.28	7,042.05	6,911.94	130.11	54.126	
3,200.00	3,124.81	3,113.39	3,124.81	11.98	122.54	91.88	3,085.24	6,333.28	7,043.02	6,908.52	134.50	52.365	
3,300.00	3,220.15	3,208.73	3,220.15	12.56	126.35	92.12	3,085.24	6,333.28	7,044.12	6,905.23	138.89	50.717	
3,400.00	3,315.50	3,304.08	3,315.50	13.14	130.16	92.35	3,085.24	6,333.28	7,045.35	6,902.07	143.28	49.170	
3,500.00	3,410.85	3,399.43	3,410.85	13.73	133.98	92.58	3,085.24	6,333.28	7,046.72	6,899.04	147.68	47.716	
3,600.00	3,506.19	3,494.77	3,506.19	14.32	137.79	92.82	3,085.24	6,333.28	7,048.20	6,896.13	152.08	46.347	
3,700.00	3,601.54	3,590.12	3,601.54	14.91	141.60	93.05	3,085.24	6,333.28	7,049.82	6,893.35	156.47	45.055	
3,800.00	3,696.89	3,685.47	3,696.89	15.50	145.42	93.28	3,085.24	6,333.28	7,051.57	6,890.70	160.87	43.835	
3,900.00	3,792.24	3,780.82	3,792.24	16.09	149.23	93.52	3,085.24	6,333.28	7,053.44	6,888.18	165.26	42.680	
4,000.00	3,887.58	3,876.16	3,887.58	16.68	153.05	93.75	3,085.24	6,333.28	7,055.45	6,885.79	169.66	41.586	
4,100.00	3,982.93	3,971.51	3,982.93	17.27	156.86	93.98	3,085.24	6,333.28	7,057.58	6,883.52	174.05	40.548	
4,200.00	4,078.28	4,066.86	4,078.28	17.86	160.67	94.21	3,085.24	6,333.28	7,059.84	6,881.39	178.45	39.562	
4,300.00	4,173.62	4,162.20	4,173.62	18.45	164.49	94.45	3,085.24	6,333.28	7,062.22	6,879.38	182.84	38.624	
4,400.00	4,268.97	4,257.55	4,268.97	19.05	168.30	94.68	3,085.24	6,333.28	7,064.74	6,877.50	187.24	37.731	
4,500.00	4,364.32	4,352.90	4,364.32	19.64	172.12	94.91	3,085.24	6,333.28	7,067.38	6,875.75	191.63	36.880	
4,600.00	4,459.67	4,448.25	4,459.67	20.23	175.93	95.14	3,085.24	6,333.28	7,070.15	6,874.12	196.03	36.067	
4,700.00	4,555.01	4,543.59	4,555.01	20.83	179.74	95.38	3,085.24	6,333.28	7,073.05	6,872.63	200.42	35.291	
4,800.00	4,650.36	4,638.94	4,650.36	21.42	183.56	95.61	3,085.24	6,333.28	7,076.07	6,871.26	204.81	34.549	
4,900.00	4,745.71	4,734.29	4,745.71	22.02	187.37	95.84	3,085.24	6,333.28	7,079.23	6,870.02	209.20	33.839	
5,000.00	4,841.05	4,829.63	4,841.05	22.61	191.19	96.07	3,085.24	6,333.28	7,082.50	6,868.91	213.59	33.159	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 319 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	4,924.98	4,936.40	23.21	195.00	96.30	3,085.24	6,333.28	7,085.91	6,867.93	217.98	32.507		
5,200.00	5,031.75	5,020.33	5,031.75	23.80	198.81	96.53	3,085.24	6,333.28	7,089.44	6,867.07	222.37	31.881		
5,300.00	5,127.09	5,115.67	5,127.09	24.40	202.63	96.76	3,085.24	6,333.28	7,093.10	6,866.34	226.76	31.281		
5,400.00	5,222.44	5,211.02	5,222.44	25.00	206.44	97.00	3,085.24	6,333.28	7,096.89	6,865.74	231.14	30.703		
5,500.00	5,317.79	5,306.37	5,317.79	25.59	210.25	97.23	3,085.24	6,333.28	7,100.80	6,865.27	235.53	30.148		
5,600.00	5,413.14	5,401.72	5,413.14	26.19	214.07	97.46	3,085.24	6,333.28	7,104.83	6,864.92	239.91	29.614		
5,700.00	5,508.48	5,497.06	5,508.48	26.78	217.88	97.69	3,085.24	6,333.28	7,109.00	6,864.70	244.29	29.100		
5,800.00	5,604.35	5,592.93	5,604.35	27.24	221.72	97.98	3,085.24	6,333.28	7,113.04	6,864.44	248.59	28.613		
5,900.00	5,701.15	5,689.73	5,701.15	27.65	225.59	98.25	3,085.24	6,333.28	7,116.69	6,863.80	252.89	28.141		
6,000.00	5,798.77	5,787.35	5,798.77	28.02	229.49	98.48	3,085.24	6,333.28	7,119.92	6,862.74	257.18	27.685		
6,100.00	5,897.08	5,885.66	5,897.08	28.35	233.43	98.68	3,085.24	6,333.28	7,122.69	6,861.24	261.45	27.243		
6,200.00	5,995.98	5,984.56	5,995.98	28.63	237.38	98.84	3,085.24	6,333.28	7,124.97	6,859.27	265.71	26.815		
6,300.00	6,095.33	6,083.91	6,095.33	28.87	241.36	98.97	3,085.24	6,333.28	7,126.74	6,856.81	269.93	26.402		
6,400.00	6,195.01	6,183.59	6,195.01	29.06	245.34	99.05	3,085.24	6,333.28	7,127.98	6,853.86	274.12	26.003		
6,500.00	6,294.91	6,283.49	6,294.91	29.20	249.34	99.10	3,085.24	6,333.28	7,128.67	6,850.41	278.26	25.618		
6,600.00	6,394.89	6,383.47	6,394.89	29.30	253.34	-14.37	3,085.24	6,333.28	7,128.44	6,846.23	282.20	25.260		
6,700.00	6,494.28	6,482.86	6,494.28	29.34	257.31	-14.59	3,085.24	6,333.28	7,118.44	6,836.08	282.37	25.210		
6,800.00	6,591.26	6,579.84	6,591.26	29.31	261.19	-15.14	3,085.24	6,333.28	7,095.15	6,817.94	277.21	25.595		
6,900.00	6,683.95	6,672.53	6,683.95	29.23	264.90	-16.05	3,085.24	6,333.28	7,059.02	6,792.14	266.89	26.450		
7,000.00	6,770.55	6,759.13	6,770.55	29.09	268.37	-17.44	3,085.24	6,333.28	7,010.77	6,758.81	251.97	27.824		
7,100.00	6,849.36	6,837.94	6,849.36	28.92	271.52	-19.47	3,085.24	6,333.28	6,951.36	6,717.65	233.72	29.743		
7,200.00	6,918.86	6,907.44	6,918.86	28.73	274.30	-22.44	3,085.24	6,333.28	6,881.96	6,667.22	214.74	32.048		
7,300.00	6,977.70	6,966.28	6,977.70	28.54	276.65	-26.88	3,085.24	6,333.28	6,803.94	6,603.71	200.23	33.981		
7,400.00	7,027.98	7,016.56	7,027.98	28.35	278.66	-29.46	3,085.24	6,333.28	6,720.52	6,521.56	198.96	33.779		
7,500.00	7,070.01	7,058.59	7,070.01	28.19	280.34	-37.83	3,085.24	6,333.28	6,633.11	6,425.45	207.66	31.942		
7,600.00	7,099.01	7,087.59	7,099.01	28.06	281.50	-51.57	3,085.24	6,333.28	6,541.00	6,296.85	244.15	26.791		
7,700.00	7,114.42	7,103.00	7,114.42	27.97	282.12	-73.42	3,085.24	6,333.28	6,446.01	6,152.86	293.15	21.989		
7,800.00	7,117.13	7,105.71	7,117.13	28.00	282.23	-89.39	3,085.24	6,333.28	6,349.98	6,044.32	305.66	20.775		
7,900.00	7,117.44	7,106.02	7,117.44	28.26	282.24	-89.40	3,085.24	6,333.28	6,254.00	5,946.86	307.14	20.362		
8,000.00	7,117.75	7,106.33	7,117.75	28.94	282.25	-89.41	3,085.24	6,333.28	6,158.14	5,849.36	308.78	19.943		
8,100.00	7,118.06	7,106.64	7,118.06	30.16	282.27	-89.42	3,085.24	6,333.28	6,062.42	5,751.87	310.55	19.521		
8,200.00	7,118.37	7,106.95	7,118.37	31.76	282.28	-89.43	3,085.24	6,333.28	5,966.84	5,654.41	312.44	19.098		
8,300.00	7,118.68	7,107.26	7,118.68	33.58	282.29	-89.44	3,085.24	6,333.28	5,871.41	5,557.00	314.41	18.674		
8,400.00	7,118.99	7,107.57	7,118.99	35.53	282.30	-89.45	3,085.24	6,333.28	5,776.14	5,459.68	316.46	18.252		
8,500.00	7,119.30	7,107.88	7,119.30	37.56	282.32	-89.46	3,085.24	6,333.28	5,681.02	5,362.45	318.57	17.833		
8,600.00	7,119.61	7,108.19	7,119.61	39.66	282.33	-89.47	3,085.24	6,333.28	5,586.08	5,265.35	320.73	17.417		
8,700.00	7,119.92	7,108.50	7,119.92	41.80	282.34	-89.48	3,085.24	6,333.28	5,491.31	5,168.38	322.93	17.004		
8,800.00	7,120.23	7,108.81	7,120.23	43.99	282.35	-89.49	3,085.24	6,333.28	5,396.74	5,071.56	325.17	16.596		
8,900.00	7,120.54	7,109.12	7,120.54	46.22	282.36	-89.50	3,085.24	6,333.28	5,302.36	4,974.91	327.45	16.193		
9,000.00	7,120.85	7,109.43	7,120.85	48.47	282.38	-89.51	3,085.24	6,333.28	5,208.19	4,878.44	329.75	15.794		
9,100.00	7,121.16	7,109.74	7,121.16	50.75	282.39	-89.52	3,085.24	6,333.28	5,114.25	4,782.18	332.07	15.401		
9,200.00	7,121.47	7,110.05	7,121.47	53.05	282.40	-89.53	3,085.24	6,333.28	5,020.54	4,686.12	334.42	15.013		
9,300.00	7,121.78	7,110.36	7,121.78	55.37	282.41	-89.54	3,085.24	6,333.28	4,927.07	4,590.29	336.78	14.630		
9,400.00	7,122.09	7,110.67	7,122.09	57.71	282.43	-89.55	3,085.24	6,333.28	4,833.87	4,494.72	339.15	14.253		
9,500.00	7,122.40	7,110.98	7,122.40	60.06	282.44	-89.56	3,085.24	6,333.28	4,740.94	4,399.40	341.54	13.881		
9,600.00	7,122.71	7,111.29	7,122.71	62.43	282.45	-89.57	3,085.24	6,333.28	4,648.31	4,304.37	343.95	13.515		
9,700.00	7,123.02	7,111.60	7,123.02	64.80	282.46	-89.58	3,085.24	6,333.28	4,555.99	4,209.63	346.36	13.154		
9,800.00	7,123.33	7,111.91	7,123.33	67.19	282.48	-89.59	3,085.24	6,333.28	4,464.00	4,115.22	348.78	12.799		
9,900.00	7,123.65	7,112.23	7,123.65	69.59	282.49	-89.60	3,085.24	6,333.28	4,372.36	4,021.15	351.21	12.449		
10,000.00	7,123.96	7,112.54	7,123.96	71.99	282.50	-89.61	3,085.24	6,333.28	4,281.10	3,927.45	353.65	12.105		
10,100.00	7,124.27	7,112.85	7,124.27	74.40	282.51	-89.62	3,085.24	6,333.28	4,190.23	3,834.14	356.09	11.767		
10,200.00	7,124.58	7,113.16	7,124.58	76.82	282.53	-89.63	3,085.24	6,333.28	4,099.79	3,741.25	358.55	11.435		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 319 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	7,113.47	7,124.89	79.25	282.54	-89.64	3,085.24	6,333.28	4,009.81	3,648.81	361.00	11.107		
10,400.00	7,125.20	7,113.78	7,125.20	81.68	282.55	-89.65	3,085.24	6,333.28	3,920.31	3,556.84	363.46	10.786		
10,500.00	7,125.51	7,114.09	7,125.51	84.12	282.56	-89.66	3,085.24	6,333.28	3,831.33	3,465.40	365.93	10.470		
10,600.00	7,125.82	7,114.40	7,125.82	86.56	282.58	-89.67	3,085.24	6,333.28	3,742.90	3,374.50	368.40	10.160		
10,700.00	7,126.13	7,114.71	7,126.13	89.01	282.59	-89.68	3,085.24	6,333.28	3,655.07	3,284.20	370.88	9.855		
10,800.00	7,126.44	7,115.02	7,126.44	91.46	282.60	-89.69	3,085.24	6,333.28	3,567.89	3,194.53	373.36	9.556		
10,900.00	7,126.75	7,115.33	7,126.75	93.91	282.61	-89.70	3,085.24	6,333.28	3,481.39	3,105.55	375.84	9.263		
11,000.00	7,127.06	7,115.64	7,127.06	96.37	282.63	-89.71	3,085.24	6,333.28	3,395.63	3,017.31	378.32	8.976		
11,100.00	7,127.37	7,115.95	7,127.37	98.83	282.64	-89.72	3,085.24	6,333.28	3,310.68	2,929.87	380.81	8.694		
11,200.00	7,127.68	7,116.26	7,127.68	101.30	282.65	-89.73	3,085.24	6,333.28	3,226.58	2,843.28	383.30	8.418		
11,300.00	7,127.99	7,116.57	7,127.99	103.77	282.66	-89.74	3,085.24	6,333.28	3,143.42	2,757.63	385.79	8.148		
11,400.00	7,128.30	7,116.88	7,128.30	106.24	282.68	-89.75	3,085.24	6,333.28	3,061.26	2,672.98	388.29	7.884		
11,500.00	7,128.61	7,117.19	7,128.61	108.71	282.69	-89.76	3,085.24	6,333.28	2,980.20	2,589.41	390.78	7.626		
11,600.00	7,128.92	7,117.50	7,128.92	111.19	282.70	-89.77	3,085.24	6,333.28	2,900.31	2,507.03	393.28	7.375		
11,700.00	7,129.23	7,117.81	7,129.23	113.66	282.71	-89.78	3,085.24	6,333.28	2,821.71	2,425.93	395.78	7.129		
11,800.00	7,129.54	7,118.12	7,129.54	116.14	282.72	-89.79	3,085.24	6,333.28	2,744.51	2,346.22	398.29	6.891		
11,900.00	7,129.85	7,118.43	7,129.85	118.62	282.74	-89.80	3,085.24	6,333.28	2,668.81	2,268.03	400.79	6.659		
12,000.00	7,130.16	7,118.74	7,130.16	121.11	282.75	-89.81	3,085.24	6,333.28	2,594.77	2,191.47	403.29	6.434		
12,100.00	7,130.47	7,119.05	7,130.47	123.59	282.76	-89.82	3,085.24	6,333.28	2,522.51	2,116.71	405.80	6.216		
12,200.00	7,130.78	7,119.36	7,130.78	126.08	282.77	-89.83	3,085.24	6,333.28	2,452.21	2,043.90	408.31	6.006		
12,300.00	7,131.09	7,119.67	7,131.09	128.57	282.79	-89.84	3,085.24	6,333.28	2,384.02	1,973.20	410.82	5.803		
12,400.00	7,131.40	7,119.98	7,131.40	131.06	282.80	-89.85	3,085.24	6,333.28	2,318.15	1,904.82	413.33	5.608		
12,500.00	7,131.71	7,120.29	7,131.71	133.55	282.81	-89.86	3,085.24	6,333.28	2,254.79	1,838.95	415.84	5.422		
12,600.00	7,132.02	7,120.60	7,132.02	136.04	282.82	-89.87	3,085.24	6,333.28	2,194.15	1,775.80	418.35	5.245		
12,700.00	7,132.33	7,120.91	7,132.33	138.54	282.84	-89.88	3,085.24	6,333.28	2,136.48	1,715.62	420.87	5.076		
12,800.00	7,132.64	7,121.22	7,132.64	141.03	282.85	-89.89	3,085.24	6,333.28	2,082.02	1,658.64	423.38	4.918		
12,900.00	7,132.95	7,121.53	7,132.95	143.53	282.86	-89.90	3,085.24	6,333.28	2,031.02	1,605.12	425.90	4.769		
13,000.00	7,133.26	7,121.84	7,133.26	146.02	282.87	-89.91	3,085.24	6,333.28	1,983.76	1,555.35	428.41	4.630		
13,100.00	7,133.57	7,122.15	7,133.57	148.52	282.89	-89.92	3,085.24	6,333.28	1,940.50	1,509.57	430.93	4.503		
13,200.00	7,133.88	7,122.46	7,133.88	151.02	282.90	-89.93	3,085.24	6,333.28	1,901.52	1,468.08	433.45	4.387		
13,300.00	7,134.19	7,122.77	7,134.19	153.52	282.91	-89.94	3,085.24	6,333.28	1,867.09	1,431.13	435.97	4.283		
13,400.00	7,134.50	7,123.08	7,134.50	156.02	282.92	-89.95	3,085.24	6,333.28	1,837.47	1,398.98	438.49	4.190		
13,500.00	7,134.81	7,123.39	7,134.81	158.52	282.94	-89.96	3,085.24	6,333.28	1,812.88	1,371.87	441.01	4.111		
13,600.00	7,135.12	7,123.70	7,135.12	161.03	282.95	-89.97	3,085.24	6,333.28	1,793.54	1,350.01	443.53	4.044		
13,700.00	7,135.43	7,124.01	7,135.43	163.53	282.96	-89.98	3,085.24	6,333.28	1,779.61	1,333.57	446.05	3.990		
13,800.00	7,135.74	7,124.32	7,135.74	166.03	282.97	-89.99	3,085.24	6,333.28	1,771.23	1,322.66	448.57	3.949		
13,898.78	7,136.05	7,124.63	7,136.05	168.51	282.99	-90.00	3,085.24	6,333.28	1,768.48	1,317.42	451.06	3.921 CC		
13,900.00	7,136.05	7,124.63	7,136.05	168.54	282.99	-90.00	3,085.24	6,333.28	1,768.48	1,317.39	451.09	3.920 ES		
14,000.00	7,136.36	7,124.94	7,136.36	171.04	283.00	-90.01	3,085.24	6,333.28	1,771.37	1,317.76	453.61	3.905		
14,100.00	7,136.67	7,125.25	7,136.67	173.55	283.01	-90.02	3,085.24	6,333.28	1,779.89	1,323.75	456.14	3.902 SF		
14,200.00	7,136.98	7,125.56	7,136.98	176.05	283.02	-90.03	3,085.24	6,333.28	1,793.95	1,335.29	458.66	3.911		
14,300.00	7,137.29	7,125.87	7,137.29	178.56	283.03	-90.04	3,085.24	6,333.28	1,813.42	1,352.24	461.18	3.932		
14,400.00	7,137.60	7,126.18	7,137.60	181.07	283.05	-90.05	3,085.24	6,333.28	1,838.13	1,374.43	463.71	3.964		
14,500.00	7,137.91	7,126.49	7,137.91	183.58	283.06	-90.06	3,085.24	6,333.28	1,867.88	1,401.65	466.23	4.006		
14,600.00	7,138.22	7,126.80	7,138.22	186.09	283.07	-90.07	3,085.24	6,333.28	1,902.42	1,433.67	468.76	4.058		
14,700.00	7,138.53	7,127.11	7,138.53	188.59	283.08	-90.08	3,085.24	6,333.28	1,941.51	1,470.23	471.28	4.120		
14,800.00	7,138.84	7,127.42	7,138.84	191.10	283.10	-90.09	3,085.24	6,333.28	1,984.87	1,511.06	473.81	4.189		
14,900.00	7,139.15	7,127.73	7,139.15	193.61	283.11	-90.10	3,085.24	6,333.28	2,032.23	1,555.89	476.34	4.266		
15,000.00	7,139.46	7,128.04	7,139.46	196.13	283.12	-90.11	3,085.24	6,333.28	2,083.31	1,604.45	478.86	4.351		
15,100.00	7,139.77	7,128.35	7,139.77	198.64	283.13	-90.12	3,085.24	6,333.28	2,137.86	1,656.47	481.39	4.441		
15,200.00	7,140.08	7,128.66	7,140.08	201.15	283.15	-90.13	3,085.24	6,333.28	2,195.60	1,711.69	483.92	4.537		
15,300.00	7,140.39	7,128.97	7,140.39	203.66	283.16	-90.14	3,085.24	6,333.28	2,256.31	1,769.86	486.44	4.638		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 319 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	7,140.70	7,129.28	7,140.70	206.17	283.17	-90.15	3,085.24	6,333.28	2,319.73	1,830.76	488.97	4.744		
15,500.00	7,141.01	7,129.59	7,141.01	208.68	283.18	-90.16	3,085.24	6,333.28	2,385.67	1,894.17	491.50	4.854		
15,600.00	7,141.32	7,129.90	7,141.32	211.20	283.20	-90.17	3,085.24	6,333.28	2,453.90	1,959.88	494.03	4.967		
15,700.00	7,141.63	7,130.21	7,141.63	213.71	283.21	-90.18	3,085.24	6,333.28	2,524.26	2,027.70	496.56	5.084		
15,800.00	7,141.94	7,130.52	7,141.94	216.22	283.22	-90.19	3,085.24	6,333.28	2,596.56	2,097.48	499.08	5.203		
15,900.00	7,142.25	7,130.83	7,142.25	218.74	283.23	-90.20	3,085.24	6,333.28	2,670.65	2,169.04	501.61	5.324		
16,000.00	7,142.56	7,131.14	7,142.56	221.25	283.25	-90.21	3,085.24	6,333.28	2,746.38	2,242.24	504.14	5.448		
16,100.00	7,142.87	7,131.45	7,142.87	223.77	283.26	-90.22	3,085.24	6,333.28	2,823.62	2,316.95	506.67	5.573		
16,200.00	7,143.18	7,131.76	7,143.18	226.28	283.27	-90.23	3,085.24	6,333.28	2,902.26	2,393.06	509.20	5.700		
16,300.00	7,143.49	7,132.07	7,143.49	228.80	283.28	-90.24	3,085.24	6,333.28	2,982.17	2,470.44	511.73	5.828		
16,400.00	7,143.80	7,132.38	7,143.80	231.31	283.30	-90.25	3,085.24	6,333.28	3,063.26	2,549.00	514.26	5.957		
16,500.00	7,144.11	7,132.69	7,144.11	233.83	283.31	-90.26	3,085.24	6,333.28	3,145.44	2,628.65	516.79	6.086		
16,600.00	7,144.42	7,133.00	7,144.42	236.34	283.32	-90.27	3,085.24	6,333.28	3,228.63	2,709.31	519.32	6.217		
16,700.00	7,144.73	7,133.31	7,144.73	238.86	283.33	-90.28	3,085.24	6,333.28	3,312.75	2,790.90	521.85	6.348		
16,800.00	7,145.05	7,133.63	7,145.05	241.37	283.35	-90.29	3,085.24	6,333.28	3,397.72	2,873.34	524.38	6.479		
16,900.00	7,145.36	7,133.94	7,145.36	243.89	283.36	-90.30	3,085.24	6,333.28	3,483.50	2,956.59	526.91	6.611		
17,000.00	7,145.67	7,134.25	7,145.67	246.41	283.37	-90.31	3,085.24	6,333.28	3,570.02	3,040.57	529.44	6.743		
17,100.00	7,145.98	7,134.56	7,145.98	248.93	283.38	-90.32	3,085.24	6,333.28	3,657.22	3,125.24	531.98	6.875		
17,200.00	7,146.29	7,134.87	7,146.29	251.44	283.39	-90.33	3,085.24	6,333.28	3,745.06	3,210.56	534.51	7.007		
17,300.00	7,146.60	7,135.18	7,146.60	253.96	283.41	-90.34	3,085.24	6,333.28	3,833.50	3,296.46	537.04	7.138		
17,400.00	7,146.91	7,135.49	7,146.91	256.48	283.42	-90.35	3,085.24	6,333.28	3,922.50	3,382.93	539.57	7.270		
17,430.36	7,147.00	7,135.58	7,147.00	257.24	283.42	-90.35	3,085.24	6,333.28	3,949.62	3,409.28	540.34	7.310		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321 - OH - OH													Offset Site Error:
Survey Program: 100-UNKNOWN													Offset Well Error:
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	161.66	0.00	0.00	108.86	-2,549.86	7,465.99	7,891.07				
100.00	100.00	0.00	161.66	0.08	0.00	108.86	-2,549.86	7,465.99	7,889.65	7,889.57	0.08	N/A	
186.94	186.94	25.28	186.94	0.28	0.51	108.86	-2,549.86	7,465.99	7,889.41	7,888.62	0.79	N/A	
200.00	200.00	38.34	200.00	0.31	0.77	108.86	-2,549.86	7,465.99	7,889.41	7,888.33	1.08	7,332.324	
300.00	300.00	138.34	300.00	0.53	3.53	108.86	-2,549.86	7,465.99	7,889.41	7,885.34	4.07	1,939.660	
400.00	400.00	238.34	400.00	0.76	7.53	108.86	-2,549.86	7,465.99	7,889.41	7,881.12	8.29	951.427	
500.00	500.00	338.34	500.00	0.98	11.53	108.86	-2,549.86	7,465.99	7,889.41	7,876.89	12.52	630.298	
600.00	600.00	438.34	600.00	1.21	15.53	108.86	-2,549.86	7,465.99	7,889.41	7,872.67	16.74	471.243	
700.00	700.00	538.34	700.00	1.43	19.53	108.86	-2,549.86	7,465.99	7,889.41	7,868.44	20.97	376.287	
800.00	800.00	638.34	800.00	1.66	23.53	108.86	-2,549.86	7,465.99	7,889.41	7,864.22	25.19	313.181	
900.00	900.00	738.34	900.00	1.88	27.53	108.86	-2,549.86	7,465.99	7,889.41	7,859.99	29.42	268.201	
1,000.00	1,000.00	838.34	1,000.00	2.11	31.53	108.86	-2,549.86	7,465.99	7,889.41	7,855.77	33.64	234.519	
1,100.00	1,099.98	938.32	1,099.98	2.33	35.53	132.47	-2,549.86	7,465.99	7,890.59	7,852.74	37.85	208.452	
1,200.00	1,199.84	1,038.18	1,199.84	2.56	39.53	132.44	-2,549.86	7,465.99	7,894.12	7,852.09	42.04	187.793	
1,300.00	1,299.45	1,137.79	1,299.45	2.79	43.51	132.40	-2,549.86	7,465.99	7,900.02	7,853.83	46.18	171.061	
1,400.00	1,398.70	1,237.04	1,398.70	3.03	47.48	132.34	-2,549.86	7,465.99	7,908.26	7,857.98	50.29	157.268	
1,500.00	1,497.47	1,335.81	1,497.47	3.30	51.43	132.27	-2,549.86	7,465.99	7,918.86	7,864.52	54.34	145.727	
1,600.00	1,595.62	1,433.96	1,595.62	3.61	55.36	132.18	-2,549.86	7,465.99	7,931.82	7,873.47	58.34	135.951	
1,700.00	1,693.06	1,531.40	1,693.06	3.95	59.26	132.07	-2,549.86	7,465.99	7,947.12	7,884.83	62.29	127.580	
1,800.00	1,789.64	1,627.98	1,789.64	4.35	63.12	131.94	-2,549.86	7,465.99	7,964.77	7,898.59	66.18	120.346	
1,900.00	1,885.30	1,723.64	1,885.30	4.80	66.95	131.86	-2,549.86	7,465.99	7,984.70	7,914.62	70.08	113.936	
2,000.00	1,980.64	1,818.98	1,980.64	5.29	70.76	132.01	-2,549.86	7,465.99	8,005.38	7,931.18	74.20	107.895	
2,100.00	2,075.99	1,914.33	2,075.99	5.80	74.57	132.17	-2,549.86	7,465.99	8,026.11	7,947.78	78.33	102.470	
2,200.00	2,171.34	2,009.68	2,171.34	6.33	78.39	132.32	-2,549.86	7,465.99	8,046.90	7,964.44	82.47	97.578	
2,300.00	2,266.68	2,105.02	2,266.68	6.87	82.20	132.48	-2,549.86	7,465.99	8,067.76	7,981.14	86.62	93.145	
2,400.00	2,362.03	2,200.37	2,362.03	7.41	86.01	132.63	-2,549.86	7,465.99	8,088.67	7,997.90	90.77	89.112	
2,500.00	2,457.38	2,295.72	2,457.38	7.97	89.83	132.78	-2,549.86	7,465.99	8,109.64	8,014.71	94.93	85.429	
2,600.00	2,552.72	2,391.06	2,552.72	8.53	93.64	132.94	-2,549.86	7,465.99	8,130.67	8,031.57	99.09	82.052	
2,700.00	2,648.07	2,486.41	2,648.07	9.10	97.46	133.09	-2,549.86	7,465.99	8,151.75	8,048.50	103.26	78.947	
2,800.00	2,743.42	2,581.76	2,743.42	9.67	101.27	133.24	-2,549.86	7,465.99	8,172.89	8,065.47	107.42	76.082	
2,900.00	2,838.77	2,677.11	2,838.77	10.24	105.08	133.39	-2,549.86	7,465.99	8,194.09	8,082.50	111.59	73.431	
3,000.00	2,934.11	2,772.45	2,934.11	10.82	108.90	133.54	-2,549.86	7,465.99	8,215.34	8,099.59	115.76	70.971	
3,100.00	3,029.46	2,867.80	3,029.46	11.40	112.71	133.69	-2,549.86	7,465.99	8,236.65	8,116.73	119.92	68.682	
3,200.00	3,124.81	2,963.15	3,124.81	11.98	116.53	133.83	-2,549.86	7,465.99	8,258.02	8,133.93	124.09	66.548	
3,300.00	3,220.15	3,058.49	3,220.15	12.56	120.34	133.98	-2,549.86	7,465.99	8,279.44	8,151.18	128.26	64.553	
3,400.00	3,315.50	3,153.84	3,315.50	13.14	124.15	134.13	-2,549.86	7,465.99	8,300.91	8,168.49	132.43	62.684	
3,500.00	3,410.85	3,249.19	3,410.85	13.73	127.97	134.27	-2,549.86	7,465.99	8,322.44	8,185.85	136.59	60.930	
3,600.00	3,506.19	3,344.53	3,506.19	14.32	131.78	134.42	-2,549.86	7,465.99	8,344.02	8,203.26	140.76	59.280	
3,700.00	3,601.54	3,439.88	3,601.54	14.91	135.60	134.56	-2,549.86	7,465.99	8,365.65	8,220.73	144.92	57.266	
3,800.00	3,696.89	3,535.23	3,696.89	15.50	139.41	134.70	-2,549.86	7,465.99	8,387.34	8,238.26	149.08	56.260	
3,900.00	3,792.24	3,630.58	3,792.24	16.09	143.22	134.85	-2,549.86	7,465.99	8,409.08	8,255.83	153.24	54.874	
4,000.00	3,887.58	3,725.92	3,887.58	16.68	147.04	134.99	-2,549.86	7,465.99	8,430.87	8,273.46	157.40	53.563	
4,100.00	3,982.93	3,821.27	3,982.93	17.27	150.85	135.13	-2,549.86	7,465.99	8,452.71	8,291.15	161.56	52.319	
4,200.00	4,078.28	3,916.62	4,078.28	17.86	154.66	135.27	-2,549.86	7,465.99	8,474.60	8,308.88	165.72	51.139	
4,300.00	4,173.62	4,011.96	4,173.62	18.45	158.48	135.41	-2,549.86	7,465.99	8,496.54	8,326.67	169.87	50.017	
4,400.00	4,268.97	4,107.31	4,268.97	19.05	162.29	135.55	-2,549.86	7,465.99	8,518.54	8,344.51	174.03	48.950	
4,500.00	4,364.32	4,202.66	4,364.32	19.64	166.11	135.69	-2,549.86	7,465.99	8,540.58	8,362.40	178.18	47.933	
4,600.00	4,459.67	4,298.01	4,459.67	20.23	169.92	135.83	-2,549.86	7,465.99	8,562.67	8,380.34	182.33	46.963	
4,700.00	4,555.01	4,393.35	4,555.01	20.83	173.73	135.96	-2,549.86	7,465.99	8,584.81	8,398.34	186.48	46.037	
4,800.00	4,650.36	4,488.70	4,650.36	21.42	177.55	136.10	-2,549.86	7,465.99	8,607.00	8,416.38	190.62	45.152	
4,900.00	4,745.71	4,584.05	4,745.71	22.02	181.36	136.23	-2,549.86	7,465.99	8,629.24	8,434.47	194.77	44.305	
5,000.00	4,841.05	4,679.39	4,841.05	22.61	185.18	136.37	-2,549.86	7,465.99	8,651.53	8,452.61	198.91	43.494	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	4,774.74	4,936.40	23.21	188.99	136.50	-2,549.86	7,465.99	8,673.86	8,470.81	203.06	42.717		
5,200.00	5,031.75	4,870.09	5,031.75	23.80	192.80	136.64	-2,549.86	7,465.99	8,696.24	8,489.05	207.20	41.971		
5,300.00	5,127.09	4,965.43	5,127.09	24.40	196.62	136.77	-2,549.86	7,465.99	8,718.67	8,507.33	211.34	41.255		
5,400.00	5,222.44	5,060.78	5,222.44	25.00	200.43	136.90	-2,549.86	7,465.99	8,741.14	8,525.67	215.47	40.567		
5,500.00	5,317.79	5,156.13	5,317.79	25.59	204.25	137.04	-2,549.86	7,465.99	8,763.66	8,544.06	219.61	39.906		
5,600.00	5,413.14	5,251.48	5,413.14	26.19	208.06	137.17	-2,549.86	7,465.99	8,786.23	8,562.49	223.74	39.270		
5,700.00	5,508.48	5,346.82	5,508.48	26.78	211.87	137.30	-2,549.86	7,465.99	8,808.84	8,580.95	227.89	38.654		
5,800.00	5,604.35	5,442.69	5,604.35	27.24	215.71	137.72	-2,549.86	7,465.99	8,830.21	8,597.21	233.00	37.899		
5,900.00	5,701.15	5,539.49	5,701.15	27.65	219.58	138.08	-2,549.86	7,465.99	8,849.08	8,611.02	238.05	37.173		
6,000.00	5,798.77	5,637.11	5,798.77	28.02	223.48	138.40	-2,549.86	7,465.99	8,865.42	8,622.38	243.03	36.478		
6,100.00	5,897.08	5,735.42	5,897.08	28.35	227.42	138.66	-2,549.86	7,465.99	8,879.19	8,631.28	247.91	35.816		
6,200.00	5,995.98	5,834.32	5,995.98	28.63	231.37	138.87	-2,549.86	7,465.99	8,890.39	8,637.71	252.68	35.185		
6,300.00	6,095.33	5,933.67	6,095.33	28.87	235.35	139.03	-2,549.86	7,465.99	8,898.97	8,641.67	257.30	34.586		
6,400.00	6,195.01	6,033.35	6,195.01	29.06	239.33	139.14	-2,549.86	7,465.99	8,904.93	8,643.17	261.77	34.019		
6,500.00	6,294.91	6,133.25	6,294.91	29.20	243.33	139.20	-2,549.86	7,465.99	8,908.26	8,642.20	266.06	33.483		
6,600.00	6,394.89	6,233.23	6,394.89	29.30	247.33	25.76	-2,549.86	7,465.99	8,908.66	8,638.67	269.98	32.997		
6,700.00	6,494.28	6,332.62	6,494.28	29.34	251.30	26.11	-2,549.86	7,465.99	8,899.36	8,628.87	270.49	32.901		
6,800.00	6,591.26	6,429.60	6,591.26	29.31	255.18	26.97	-2,549.86	7,465.99	8,877.71	8,611.15	266.56	33.305		
6,900.00	6,683.95	6,522.29	6,683.95	29.23	258.89	28.41	-2,549.86	7,465.99	8,844.15	8,585.51	258.63	34.196		
7,000.00	6,770.55	6,608.89	6,770.55	29.09	262.36	30.54	-2,549.86	7,465.99	8,799.35	8,551.53	247.81	35.508		
7,100.00	6,849.36	6,687.70	6,849.36	28.92	265.51	33.55	-2,549.86	7,465.99	8,744.23	8,508.04	236.19	37.021		
7,200.00	6,918.86	6,757.20	6,918.86	28.73	268.29	37.72	-2,549.86	7,465.99	8,679.91	8,452.44	227.47	38.159		
7,300.00	6,977.70	6,816.04	6,977.70	28.54	270.64	43.46	-2,549.86	7,465.99	8,607.69	8,381.03	226.67	37.975		
7,400.00	7,027.98	6,866.32	7,027.98	28.35	272.65	46.51	-2,549.86	7,465.99	8,530.57	8,298.88	231.69	36.819		
7,500.00	7,070.01	6,908.35	7,070.01	28.19	274.33	55.33	-2,549.86	7,465.99	8,449.89	8,201.22	248.66	33.981		
7,600.00	7,099.01	6,937.35	7,099.01	28.06	275.49	66.88	-2,549.86	7,465.99	8,365.00	8,090.26	274.74	30.447		
7,700.00	7,114.42	6,952.76	7,114.42	27.97	276.11	80.87	-2,549.86	7,465.99	8,277.60	7,980.35	297.25	27.847		
7,800.00	7,117.13	6,955.47	7,117.13	28.00	276.22	89.67	-2,549.86	7,465.99	8,189.39	7,885.64	303.75	26.961		
7,900.00	7,117.44	6,955.78	7,117.44	28.26	276.23	89.67	-2,549.86	7,465.99	8,101.40	7,795.59	305.80	26.492		
8,000.00	7,117.75	6,956.09	7,117.75	28.94	276.24	89.68	-2,549.86	7,465.99	8,013.68	7,705.67	308.02	26.017		
8,100.00	7,118.06	6,956.40	7,118.06	30.16	276.26	89.68	-2,549.86	7,465.99	7,926.26	7,615.90	310.36	25.539		
8,200.00	7,118.37	6,956.71	7,118.37	31.76	276.27	89.69	-2,549.86	7,465.99	7,839.14	7,526.33	312.81	25.060		
8,300.00	7,118.68	6,957.02	7,118.68	33.58	276.28	89.69	-2,549.86	7,465.99	7,752.33	7,436.97	315.36	24.583		
8,400.00	7,118.99	6,957.33	7,118.99	35.53	276.29	89.70	-2,549.86	7,465.99	7,665.84	7,347.86	317.97	24.108		
8,500.00	7,119.30	6,957.64	7,119.30	37.56	276.31	89.70	-2,549.86	7,465.99	7,579.68	7,259.02	320.65	23.638		
8,600.00	7,119.61	6,957.95	7,119.61	39.66	276.32	89.71	-2,549.86	7,465.99	7,493.87	7,170.48	323.39	23.173		
8,700.00	7,119.92	6,958.26	7,119.92	41.80	276.33	89.71	-2,549.86	7,465.99	7,408.41	7,082.25	326.16	22.714		
8,800.00	7,120.23	6,958.57	7,120.23	43.99	276.34	89.71	-2,549.86	7,465.99	7,323.32	6,994.34	328.97	22.261		
8,900.00	7,120.54	6,958.88	7,120.54	46.22	276.36	89.72	-2,549.86	7,465.99	7,238.61	6,906.79	331.82	21.815		
9,000.00	7,120.85	6,959.19	7,120.85	48.47	276.37	89.72	-2,549.86	7,465.99	7,154.30	6,819.61	334.69	21.376		
9,100.00	7,121.16	6,959.50	7,121.16	50.75	276.38	89.73	-2,549.86	7,465.99	7,070.39	6,732.81	337.58	20.944		
9,200.00	7,121.47	6,959.81	7,121.47	53.05	276.39	89.73	-2,549.86	7,465.99	6,986.91	6,646.41	340.50	20.520		
9,300.00	7,121.78	6,960.12	7,121.78	55.37	276.40	89.74	-2,549.86	7,465.99	6,903.87	6,560.44	343.43	20.103		
9,400.00	7,122.09	6,960.43	7,122.09	57.71	276.42	89.74	-2,549.86	7,465.99	6,821.28	6,474.91	346.37	19.693		
9,500.00	7,122.40	6,960.74	7,122.40	60.06	276.43	89.75	-2,549.86	7,465.99	6,739.17	6,389.83	349.33	19.292		
9,600.00	7,122.71	6,961.05	7,122.71	62.43	276.44	89.75	-2,549.86	7,465.99	6,657.54	6,305.23	352.31	18.897		
9,700.00	7,123.02	6,961.36	7,123.02	64.80	276.45	89.76	-2,549.86	7,465.99	6,576.42	6,221.13	355.29	18.510		
9,800.00	7,123.33	6,961.67	7,123.33	67.19	276.47	89.76	-2,549.86	7,465.99	6,495.83	6,137.55	358.28	18.131		
9,900.00	7,123.65	6,961.99	7,123.65	69.59	276.48	89.76	-2,549.86	7,465.99	6,415.78	6,054.50	361.28	17.758		
10,000.00	7,123.96	6,962.30	7,123.96	71.99	276.49	89.77	-2,549.86	7,465.99	6,336.30	5,972.02	364.29	17.394		
10,100.00	7,124.27	6,962.61	7,124.27	74.40	276.50	89.77	-2,549.86	7,465.99	6,257.41	5,890.11	367.30	17.036		
10,200.00	7,124.58	6,962.92	7,124.58	76.82	276.52	89.78	-2,549.86	7,465.99	6,179.13	5,808.81	370.32	16.686		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	6,963.23	7,124.89	79.25	276.53	89.78	-2,549.86	7,465.99	6,101.49	5,728.14	373.35	16.343		
10,400.00	7,125.20	6,963.54	7,125.20	81.68	276.54	89.79	-2,549.86	7,465.99	6,024.51	5,648.12	376.38	16.006		
10,500.00	7,125.51	6,963.85	7,125.51	84.12	276.55	89.79	-2,549.86	7,465.99	5,948.20	5,568.79	379.42	15.677		
10,600.00	7,125.82	6,964.16	7,125.82	86.56	276.57	89.80	-2,549.86	7,465.99	5,872.62	5,490.16	382.46	15.355		
10,700.00	7,126.13	6,964.47	7,126.13	89.01	276.58	89.80	-2,549.86	7,465.99	5,797.77	5,412.26	385.50	15.039		
10,800.00	7,126.44	6,964.78	7,126.44	91.46	276.59	89.81	-2,549.86	7,465.99	5,723.69	5,335.13	388.55	14.731		
10,900.00	7,126.75	6,965.09	7,126.75	93.91	276.60	89.81	-2,549.86	7,465.99	5,650.40	5,258.80	391.60	14.429		
11,000.00	7,127.06	6,965.40	7,127.06	96.37	276.62	89.82	-2,549.86	7,465.99	5,577.95	5,183.29	394.66	14.134		
11,100.00	7,127.37	6,965.71	7,127.37	98.83	276.63	89.82	-2,549.86	7,465.99	5,506.36	5,108.65	397.71	13.845		
11,200.00	7,127.68	6,966.02	7,127.68	101.30	276.64	89.82	-2,549.86	7,465.99	5,435.67	5,034.90	400.77	13.563		
11,300.00	7,127.99	6,966.33	7,127.99	103.77	276.65	89.83	-2,549.86	7,465.99	5,365.91	4,962.07	403.83	13.287		
11,400.00	7,128.30	6,966.64	7,128.30	106.24	276.67	89.83	-2,549.86	7,465.99	5,297.12	4,890.22	406.90	13.018		
11,500.00	7,128.61	6,966.95	7,128.61	108.71	276.68	89.84	-2,549.86	7,465.99	5,229.33	4,819.37	409.97	12.756		
11,600.00	7,128.92	6,967.26	7,128.92	111.19	276.69	89.84	-2,549.86	7,465.99	5,162.60	4,749.56	413.03	12.499		
11,700.00	7,129.23	6,967.57	7,129.23	113.66	276.70	89.85	-2,549.86	7,465.99	5,096.95	4,680.84	416.10	12.249		
11,800.00	7,129.54	6,967.88	7,129.54	116.14	276.72	89.85	-2,549.86	7,465.99	5,032.43	4,613.25	419.18	12.006		
11,900.00	7,129.85	6,968.19	7,129.85	118.62	276.73	89.86	-2,549.86	7,465.99	4,969.09	4,546.84	422.25	11.768		
12,000.00	7,130.16	6,968.50	7,130.16	121.11	276.74	89.86	-2,549.86	7,465.99	4,906.96	4,481.64	425.32	11.537		
12,100.00	7,130.47	6,968.81	7,130.47	123.59	276.75	89.87	-2,549.86	7,465.99	4,846.11	4,417.71	428.40	11.312		
12,200.00	7,130.78	6,969.12	7,130.78	126.08	276.76	89.87	-2,549.86	7,465.99	4,786.57	4,355.09	431.48	11.093		
12,300.00	7,131.09	6,969.43	7,131.09	128.57	276.78	89.88	-2,549.86	7,465.99	4,728.40	4,293.84	434.56	10.881		
12,400.00	7,131.40	6,969.74	7,131.40	131.06	276.79	89.88	-2,549.86	7,465.99	4,671.64	4,234.00	437.64	10.675		
12,500.00	7,131.71	6,970.05	7,131.71	133.55	276.80	89.88	-2,549.86	7,465.99	4,616.35	4,175.63	440.72	10.475		
12,600.00	7,132.02	6,970.36	7,132.02	136.04	276.81	89.89	-2,549.86	7,465.99	4,562.58	4,118.78	443.80	10.281		
12,700.00	7,132.33	6,970.67	7,132.33	138.54	276.83	89.89	-2,549.86	7,465.99	4,510.39	4,063.51	446.88	10.093		
12,800.00	7,132.64	6,970.98	7,132.64	141.03	276.84	89.90	-2,549.86	7,465.99	4,459.83	4,009.86	449.97	9.911		
12,900.00	7,132.95	6,971.29	7,132.95	143.53	276.85	89.90	-2,549.86	7,465.99	4,410.96	3,957.91	453.05	9.736		
13,000.00	7,133.26	6,971.60	7,133.26	146.02	276.86	89.91	-2,549.86	7,465.99	4,363.83	3,907.70	456.14	9.567		
13,100.00	7,133.57	6,971.91	7,133.57	148.52	276.88	89.91	-2,549.86	7,465.99	4,318.51	3,859.28	459.22	9.404		
13,200.00	7,133.88	6,972.22	7,133.88	151.02	276.89	89.92	-2,549.86	7,465.99	4,275.04	3,812.73	462.31	9.247		
13,300.00	7,134.19	6,972.53	7,134.19	153.52	276.90	89.92	-2,549.86	7,465.99	4,233.49	3,768.09	465.40	9.096		
13,400.00	7,134.50	6,972.84	7,134.50	156.02	276.91	89.93	-2,549.86	7,465.99	4,193.92	3,725.43	468.49	8.952		
13,500.00	7,134.81	6,973.15	7,134.81	158.52	276.93	89.93	-2,549.86	7,465.99	4,156.37	3,684.79	471.58	8.814		
13,600.00	7,135.12	6,973.46	7,135.12	161.03	276.94	89.93	-2,549.86	7,465.99	4,120.91	3,646.24	474.67	8.682		
13,700.00	7,135.43	6,973.77	7,135.43	163.53	276.95	89.94	-2,549.86	7,465.99	4,087.59	3,609.83	477.76	8.556		
13,800.00	7,135.74	6,974.08	7,135.74	166.03	276.96	89.94	-2,549.86	7,465.99	4,056.45	3,575.61	480.85	8.436		
13,900.00	7,136.05	6,974.39	7,136.05	168.54	276.98	89.95	-2,549.86	7,465.99	4,027.57	3,543.63	483.94	8.322		
14,000.00	7,136.36	6,974.70	7,136.36	171.04	276.99	89.95	-2,549.86	7,465.99	4,000.97	3,513.94	487.03	8.215		
14,100.00	7,136.67	6,975.01	7,136.67	173.55	277.00	89.96	-2,549.86	7,465.99	3,976.71	3,486.59	490.13	8.114		
14,200.00	7,136.98	6,975.32	7,136.98	176.05	277.01	89.96	-2,549.86	7,465.99	3,954.83	3,461.61	493.22	8.018		
14,300.00	7,137.29	6,975.63	7,137.29	178.56	277.03	89.97	-2,549.86	7,465.99	3,935.38	3,439.06	496.31	7.929		
14,400.00	7,137.60	6,975.94	7,137.60	181.07	277.04	89.97	-2,549.86	7,465.99	3,918.37	3,418.97	499.41	7.846		
14,500.00	7,137.91	6,976.25	7,137.91	183.58	277.05	89.98	-2,549.86	7,465.99	3,903.86	3,401.36	502.50	7.769		
14,600.00	7,138.22	6,976.56	7,138.22	186.09	277.06	89.98	-2,549.86	7,465.99	3,891.86	3,386.27	505.60	7.698		
14,700.00	7,138.53	6,976.87	7,138.53	188.59	277.07	89.99	-2,549.86	7,465.99	3,882.40	3,373.71	508.69	7.632		
14,800.00	7,138.84	6,977.18	7,138.84	191.10	277.09	89.99	-2,549.86	7,465.99	3,875.50	3,363.72	511.79	7.572		
14,900.00	7,139.15	6,977.49	7,139.15	193.61	277.10	89.99	-2,549.86	7,465.99	3,871.18	3,356.29	514.88	7.519		
15,000.00	7,139.46	6,977.80	7,139.46	196.13	277.11	90.00	-2,549.86	7,465.99	3,869.43	3,351.45	517.98	7.470		
15,017.65	7,139.52	6,977.86	7,139.52	196.57	277.11	90.00	-2,549.86	7,465.99	3,869.39	3,350.39	518.99	7.456 CC		
15,100.00	7,139.77	6,978.11	7,139.77	198.64	277.12	90.00	-2,549.86	7,465.99	3,870.26	3,349.19	521.08	7.427 ES		
15,200.00	7,140.08	6,978.42	7,140.08	201.15	277.14	90.01	-2,549.86	7,465.99	3,873.68	3,349.51	524.17	7.390		
15,300.00	7,140.39	6,978.73	7,140.39	203.66	277.15	90.01	-2,549.86	7,465.99	3,879.68	3,352.41	527.27	7.358		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
15,400.00	7,140.70	6,979.04	7,140.70	206.17	277.16	90.02	-2,549.86	7,465.99	3,888.23	3,357.87	530.37	7.331	
15,500.00	7,141.01	6,979.35	7,141.01	208.68	277.17	90.02	-2,549.86	7,465.99	3,899.34	3,365.87	533.46	7.309	
15,600.00	7,141.32	6,979.66	7,141.32	211.20	277.19	90.03	-2,549.86	7,465.99	3,912.96	3,376.40	536.56	7.293	
15,700.00	7,141.63	6,979.97	7,141.63	213.71	277.20	90.03	-2,549.86	7,465.99	3,929.09	3,389.43	539.66	7.281	
15,800.00	7,141.94	6,980.28	7,141.94	216.22	277.21	90.04	-2,549.86	7,465.99	3,947.69	3,404.93	542.76	7.273	
15,900.00	7,142.25	6,980.59	7,142.25	218.74	277.22	90.04	-2,549.86	7,465.99	3,968.71	3,422.86	545.86	7.271 SF	
16,000.00	7,142.56	6,980.90	7,142.56	221.25	277.24	90.05	-2,549.86	7,465.99	3,992.14	3,443.18	548.96	7.272	
16,100.00	7,142.87	6,981.21	7,142.87	223.77	277.25	90.05	-2,549.86	7,465.99	4,017.91	3,465.86	552.06	7.278	
16,200.00	7,143.18	6,981.52	7,143.18	226.28	277.26	90.05	-2,549.86	7,465.99	4,046.00	3,490.84	555.16	7.288	
16,300.00	7,143.49	6,981.83	7,143.49	228.80	277.27	90.06	-2,549.86	7,465.99	4,076.34	3,518.09	558.26	7.302	
16,400.00	7,143.80	6,982.14	7,143.80	231.31	277.29	90.06	-2,549.86	7,465.99	4,108.90	3,547.54	561.36	7.320	
16,500.00	7,144.11	6,982.45	7,144.11	233.83	277.30	90.07	-2,549.86	7,465.99	4,143.61	3,579.15	564.46	7.341	
16,600.00	7,144.42	6,982.76	7,144.42	236.34	277.31	90.07	-2,549.86	7,465.99	4,180.43	3,612.87	567.56	7.366	
16,700.00	7,144.73	6,983.07	7,144.73	238.86	277.32	90.08	-2,549.86	7,465.99	4,219.29	3,648.64	570.66	7.394	
16,800.00	7,145.05	6,983.39	7,145.05	241.37	277.34	90.08	-2,549.86	7,465.99	4,260.15	3,686.40	573.76	7.425	
16,900.00	7,145.36	6,983.70	7,145.36	243.89	277.35	90.09	-2,549.86	7,465.99	4,302.95	3,726.09	576.86	7.459	
17,000.00	7,145.67	6,984.01	7,145.67	246.41	277.36	90.09	-2,549.86	7,465.99	4,347.62	3,767.66	579.96	7.496	
17,100.00	7,145.98	6,984.32	7,145.98	248.93	277.37	90.10	-2,549.86	7,465.99	4,394.12	3,811.06	583.06	7.536	
17,200.00	7,146.29	6,984.63	7,146.29	251.44	277.39	90.10	-2,549.86	7,465.99	4,442.38	3,856.22	586.16	7.579	
17,300.00	7,146.60	6,984.94	7,146.60	253.96	277.40	90.10	-2,549.86	7,465.99	4,492.35	3,903.09	589.26	7.624	
17,400.00	7,146.91	6,985.25	7,146.91	256.48	277.41	90.11	-2,549.86	7,465.99	4,543.97	3,951.61	592.36	7.671	
17,430.36	7,147.00	6,985.34	7,147.00	257.24	277.41	90.11	-2,549.86	7,465.99	4,559.96	3,966.66	593.31	7.686	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)				Offset Well Error:	0.00 usft	Offset Site Error:
0.00	0.00	0.00	103.29	0.00	0.00	84.27	789.82	7,876.98	7,917.15					
100.00	100.00	0.00	103.29	0.08	0.00	84.27	789.82	7,876.98	7,916.39	0.08	N/A			
134.47	134.47	31.18	134.47	0.16	0.62	84.27	789.82	7,876.98	7,916.48	0.79	N/A			
200.00	200.00	96.71	200.00	0.31	1.93	84.27	789.82	7,876.98	7,916.48	2.24	3,529.006			
300.00	300.00	196.71	300.00	0.53	5.87	84.27	789.82	7,876.98	7,916.48	6.40	1,236.521			
400.00	400.00	296.71	400.00	0.76	9.87	84.27	789.82	7,876.98	7,916.48	10.63	744.941			
500.00	500.00	396.71	500.00	0.98	13.87	84.27	789.82	7,876.98	7,916.48	14.85	533.033			
600.00	600.00	496.71	600.00	1.21	17.87	84.27	789.82	7,876.98	7,916.48	19.08	414.986			
700.00	700.00	596.71	700.00	1.43	21.87	84.27	789.82	7,876.98	7,916.48	23.30	339.744			
800.00	800.00	696.71	800.00	1.66	25.87	84.27	789.82	7,876.98	7,916.48	27.53	287.600			
900.00	900.00	796.71	900.00	1.88	29.87	84.27	789.82	7,876.98	7,916.48	31.75	249.331			
1,000.00	1,000.00	896.71	1,000.00	2.11	33.87	84.27	789.82	7,876.98	7,916.48	35.98	220.051			
1,100.00	1,099.98	996.69	1,099.98	2.33	37.87	107.89	789.82	7,876.98	7,917.01	40.20	196.962			
1,200.00	1,199.84	1,096.55	1,199.84	2.56	41.86	107.90	789.82	7,876.98	7,918.63	44.41	178.326			
1,300.00	1,299.45	1,196.16	1,299.45	2.79	45.85	107.91	789.82	7,876.98	7,921.31	48.60	162.973			
1,400.00	1,398.70	1,295.41	1,398.70	3.03	49.82	107.92	789.82	7,876.98	7,925.09	52.80	150.109			
1,500.00	1,497.47	1,394.18	1,497.47	3.30	53.77	107.93	789.82	7,876.98	7,929.96	56.98	139.172			
1,600.00	1,595.62	1,492.33	1,595.62	3.61	57.69	107.95	789.82	7,876.98	7,935.93	61.16	129.759			
1,700.00	1,693.06	1,589.77	1,693.06	3.95	61.59	107.96	789.82	7,876.98	7,943.03	65.34	121.570			
1,800.00	1,789.64	1,686.35	1,789.64	4.35	65.45	107.98	789.82	7,876.98	7,951.27	69.52	114.382			
1,900.00	1,885.30	1,782.01	1,885.30	4.80	69.28	108.03	789.82	7,876.98	7,960.65	73.71	108.003			
2,000.00	1,980.64	1,877.35	1,980.64	5.29	73.09	108.23	789.82	7,876.98	7,970.44	77.96	102.233			
2,100.00	2,075.99	1,972.70	2,075.99	5.80	76.91	108.43	789.82	7,876.98	7,980.33	82.24	97.039			
2,200.00	2,171.34	2,068.05	2,171.34	6.33	80.72	108.62	789.82	7,876.98	7,990.33	86.53	92.346			
2,300.00	2,266.68	2,163.39	2,266.68	6.87	84.54	108.82	789.82	7,876.98	8,000.43	90.82	88.087			
2,400.00	2,362.03	2,258.74	2,362.03	7.41	88.35	109.02	789.82	7,876.98	8,010.62	95.13	84.206			
2,500.00	2,457.38	2,354.09	2,457.38	7.97	92.16	109.21	789.82	7,876.98	8,020.92	99.44	80.659			
2,600.00	2,552.72	2,449.43	2,552.72	8.53	95.98	109.40	789.82	7,876.98	8,031.32	103.76	77.404			
2,700.00	2,648.07	2,544.78	2,648.07	9.10	99.79	109.60	789.82	7,876.98	8,041.82	108.08	74.408			
2,800.00	2,743.42	2,640.13	2,743.42	9.67	103.61	109.79	789.82	7,876.98	8,052.41	112.40	71.641			
2,900.00	2,838.77	2,735.48	2,838.77	10.24	107.42	109.99	789.82	7,876.98	8,063.11	116.72	69.079			
3,000.00	2,934.11	2,830.82	2,934.11	10.82	111.23	110.18	789.82	7,876.98	8,073.90	121.05	66.701			
3,100.00	3,029.46	2,926.17	3,029.46	11.40	115.05	110.37	789.82	7,876.98	8,084.80	125.37	64.487			
3,200.00	3,124.81	3,021.52	3,124.81	11.98	118.86	110.56	789.82	7,876.98	8,095.79	129.70	62.421			
3,300.00	3,220.15	3,116.86	3,220.15	12.56	122.67	110.75	789.82	7,876.98	8,106.87	134.02	60.490			
3,400.00	3,315.50	3,212.21	3,315.50	13.14	126.49	110.95	789.82	7,876.98	8,118.06	138.35	58.680			
3,500.00	3,410.85	3,307.56	3,410.85	13.73	130.30	111.14	789.82	7,876.98	8,129.34	142.67	56.980			
3,600.00	3,506.19	3,402.90	3,506.19	14.32	134.12	111.33	789.82	7,876.98	8,140.71	146.99	55.382			
3,700.00	3,601.54	3,498.25	3,601.54	14.91	137.93	111.52	789.82	7,876.98	8,152.19	151.31	53.876			
3,800.00	3,696.89	3,593.60	3,696.89	15.50	141.74	111.70	789.82	7,876.98	8,163.75	155.64	52.454			
3,900.00	3,792.24	3,688.95	3,792.24	16.09	145.56	111.89	789.82	7,876.98	8,175.41	159.96	51.111			
4,000.00	3,887.58	3,784.29	3,887.58	16.68	149.37	112.08	789.82	7,876.98	8,187.17	164.27	49.838			
4,100.00	3,982.93	3,879.64	3,982.93	17.27	153.19	112.27	789.82	7,876.98	8,199.02	168.59	48.632			
4,200.00	4,078.28	3,974.99	4,078.28	17.86	157.00	112.46	789.82	7,876.98	8,210.97	172.91	47.488			
4,300.00	4,173.62	4,070.33	4,173.62	18.45	160.81	112.64	789.82	7,876.98	8,223.00	177.22	46.399			
4,400.00	4,268.97	4,165.68	4,268.97	19.05	164.63	112.83	789.82	7,876.98	8,235.13	181.53	45.364			
4,500.00	4,364.32	4,261.03	4,364.32	19.64	168.44	113.01	789.82	7,876.98	8,247.35	185.85	44.377			
4,600.00	4,459.67	4,356.38	4,459.67	20.23	172.26	113.20	789.82	7,876.98	8,259.67	190.16	43.436			
4,700.00	4,555.01	4,451.72	4,555.01	20.83	176.07	113.38	789.82	7,876.98	8,272.07	194.46	42.538			
4,800.00	4,650.36	4,547.07	4,650.36	21.42	179.88	113.57	789.82	7,876.98	8,284.57	198.77	41.679			
4,900.00	4,745.71	4,642.42	4,745.71	22.02	183.70	113.75	789.82	7,876.98	8,297.16	203.08	40.858			
5,000.00	4,841.05	4,737.76	4,841.05	22.61	187.51	113.93	789.82	7,876.98	8,309.84	207.38	40.071			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321M - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,936.40	4,833.11	4,936.40	23.21	191.32	114.12	789.82	7,876.98	8,322.61	8,110.93	211.68	39.317	
5,200.00	5,031.75	4,928.46	5,031.75	23.80	195.14	114.30	789.82	7,876.98	8,335.46	8,119.48	215.98	38.594	
5,300.00	5,127.09	5,023.80	5,127.09	24.40	198.95	114.48	789.82	7,876.98	8,348.41	8,128.13	220.28	37.900	
5,400.00	5,222.44	5,119.15	5,222.44	25.00	202.77	114.66	789.82	7,876.98	8,361.44	8,136.87	224.57	37.233	
5,500.00	5,317.79	5,214.50	5,317.79	25.59	206.58	114.84	789.82	7,876.98	8,374.57	8,145.70	228.86	36.592	
5,600.00	5,413.14	5,309.85	5,413.14	26.19	210.39	115.02	789.82	7,876.98	8,387.78	8,154.62	233.16	35.975	
5,700.00	5,508.48	5,405.19	5,508.48	26.78	214.21	115.20	789.82	7,876.98	8,401.08	8,163.63	237.45	35.380	
5,800.00	5,604.35	5,501.06	5,604.35	27.24	218.04	115.60	789.82	7,876.98	8,413.70	8,171.73	241.97	34.772	
5,900.00	5,701.15	5,597.86	5,701.15	27.65	221.91	115.95	789.82	7,876.98	8,424.89	8,178.41	246.48	34.181	
6,000.00	5,798.77	5,695.48	5,798.77	28.02	225.82	116.26	789.82	7,876.98	8,434.61	8,183.64	250.97	33.608	
6,100.00	5,897.08	5,793.79	5,897.08	28.35	229.75	116.52	789.82	7,876.98	8,442.84	8,187.41	255.43	33.054	
6,200.00	5,995.98	5,892.69	5,995.98	28.63	233.71	116.73	789.82	7,876.98	8,449.53	8,189.70	259.84	32.518	
6,300.00	6,095.33	5,992.04	6,095.33	28.87	237.68	116.89	789.82	7,876.98	8,454.68	8,190.49	264.19	32.003	
6,400.00	6,195.01	6,091.72	6,195.01	29.06	241.67	117.00	789.82	7,876.98	8,458.26	8,189.79	268.46	31.506	
6,500.00	6,294.91	6,191.62	6,294.91	29.20	245.66	117.06	789.82	7,876.98	8,460.26	8,187.60	272.66	31.029	
6,600.00	6,394.89	6,291.60	6,394.89	29.30	249.66	3.60	789.82	7,876.98	8,460.31	8,183.74	276.57	30.590	
6,700.00	6,494.28	6,390.99	6,494.28	29.34	253.64	3.65	789.82	7,876.98	8,450.01	8,173.56	276.45	30.566	
6,800.00	6,591.26	6,487.97	6,591.26	29.31	257.52	3.79	789.82	7,876.98	8,426.01	8,155.33	270.68	31.129	
6,900.00	6,683.95	6,580.66	6,683.95	29.23	261.23	4.03	789.82	7,876.98	8,388.77	8,129.58	259.19	32.365	
7,000.00	6,770.55	6,667.26	6,770.55	29.09	264.69	4.39	789.82	7,876.98	8,339.03	8,096.95	242.07	34.448	
7,100.00	6,849.36	6,746.07	6,849.36	28.92	267.84	4.93	789.82	7,876.98	8,277.73	8,058.10	219.63	37.689	
7,200.00	6,918.86	6,815.57	6,918.86	28.73	270.62	5.75	789.82	7,876.98	8,206.10	8,013.64	192.45	42.639	
7,300.00	6,977.70	6,874.41	6,977.70	28.54	272.98	7.03	789.82	7,876.98	8,125.51	7,963.86	161.64	50.268	
7,400.00	7,027.98	6,924.69	7,027.98	28.35	274.99	7.80	789.82	7,876.98	8,039.26	7,889.66	149.60	53.739	
7,500.00	7,070.01	6,966.72	7,070.01	28.19	276.67	10.64	789.82	7,876.98	7,948.81	7,829.55	119.26	66.651	
7,600.00	7,099.01	6,995.72	7,099.01	28.06	277.83	16.91	789.82	7,876.98	7,853.41	7,745.54	107.87	72.805	
7,700.00	7,114.42	7,011.13	7,114.42	27.97	278.45	38.92	789.82	7,876.98	7,754.91	7,565.75	189.17	40.995	
7,800.00	7,117.13	7,013.84	7,117.13	28.00	278.55	87.44	789.82	7,876.98	7,655.22	7,349.63	305.60	25.050	
7,900.00	7,117.44	7,014.15	7,117.44	28.26	278.57	87.48	789.82	7,876.98	7,555.47	7,247.81	307.66	24.558	
8,000.00	7,117.75	7,014.46	7,117.75	28.94	278.58	87.51	789.82	7,876.98	7,455.72	7,145.84	309.88	24.060	
8,100.00	7,118.06	7,014.77	7,118.06	30.16	278.59	87.54	789.82	7,876.98	7,355.98	7,043.74	312.23	23.559	
8,200.00	7,118.37	7,015.08	7,118.37	31.76	278.60	87.58	789.82	7,876.98	7,256.24	6,941.54	314.70	23.058	
8,300.00	7,118.68	7,015.39	7,118.68	33.58	278.62	87.61	789.82	7,876.98	7,156.51	6,839.26	317.25	22.558	
8,400.00	7,118.99	7,015.70	7,118.99	35.53	278.63	87.65	789.82	7,876.98	7,056.79	6,736.91	319.88	22.061	
8,500.00	7,119.30	7,016.01	7,119.30	37.56	278.64	87.68	789.82	7,876.98	6,957.08	6,634.51	322.57	21.568	
8,600.00	7,119.61	7,016.32	7,119.61	39.66	278.65	87.71	789.82	7,876.98	6,857.38	6,532.06	325.31	21.079	
8,700.00	7,119.92	7,016.63	7,119.92	41.80	278.67	87.75	789.82	7,876.98	6,757.68	6,429.58	328.10	20.596	
8,800.00	7,120.23	7,016.94	7,120.23	43.99	278.68	87.78	789.82	7,876.98	6,658.00	6,327.08	330.92	20.120	
8,900.00	7,120.54	7,017.25	7,120.54	46.22	278.69	87.81	789.82	7,876.98	6,558.32	6,224.55	333.77	19.649	
9,000.00	7,120.85	7,017.56	7,120.85	48.47	278.70	87.85	789.82	7,876.98	6,458.65	6,122.00	336.65	19.185	
9,100.00	7,121.16	7,017.87	7,121.16	50.75	278.71	87.88	789.82	7,876.98	6,359.00	6,019.44	339.56	18.727	
9,200.00	7,121.47	7,018.18	7,121.47	53.05	278.73	87.91	789.82	7,876.98	6,259.35	5,916.87	342.48	18.277	
9,300.00	7,121.78	7,018.49	7,121.78	55.37	278.74	87.95	789.82	7,876.98	6,159.72	5,814.30	345.42	17.833	
9,400.00	7,122.09	7,018.80	7,122.09	57.71	278.75	87.98	789.82	7,876.98	6,060.10	5,711.72	348.37	17.395	
9,500.00	7,122.40	7,019.11	7,122.40	60.06	278.76	88.01	789.82	7,876.98	5,960.49	5,609.15	351.34	16.965	
9,600.00	7,122.71	7,019.42	7,122.71	62.43	278.78	88.05	789.82	7,876.98	5,860.89	5,506.57	354.32	16.541	
9,700.00	7,123.02	7,019.73	7,123.02	64.80	278.79	88.08	789.82	7,876.98	5,761.31	5,404.00	357.31	16.124	
9,800.00	7,123.33	7,020.04	7,123.33	67.19	278.80	88.11	789.82	7,876.98	5,661.74	5,301.43	360.31	15.713	
9,900.00	7,123.65	7,020.36	7,123.65	69.59	278.81	88.15	789.82	7,876.98	5,562.19	5,198.87	363.32	15.309	
10,000.00	7,123.96	7,020.67	7,123.96	71.99	278.83	88.18	789.82	7,876.98	5,462.66	5,096.32	366.34	14.912	
10,100.00	7,124.27	7,020.98	7,124.27	74.40	278.84	88.21	789.82	7,876.98	5,363.14	4,993.78	369.36	14.520	
10,200.00	7,124.58	7,021.29	7,124.58	76.82	278.85	88.25	789.82	7,876.98	5,263.64	4,891.25	372.39	14.135	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	7,021.60	7,124.89	79.25	278.86	88.28	789.82	7,876.98	5,164.16	4,788.74	375.42	13.756		
10,400.00	7,125.20	7,021.91	7,125.20	81.68	278.88	88.31	789.82	7,876.98	5,064.70	4,686.24	378.46	13.382		
10,500.00	7,125.51	7,022.22	7,125.51	84.12	278.89	88.35	789.82	7,876.98	4,965.26	4,583.76	381.51	13.015		
10,600.00	7,125.82	7,022.53	7,125.82	86.56	278.90	88.38	789.82	7,876.98	4,865.85	4,481.30	384.55	12.653		
10,700.00	7,126.13	7,022.84	7,126.13	89.01	278.91	88.41	789.82	7,876.98	4,766.46	4,378.85	387.61	12.297		
10,800.00	7,126.44	7,023.15	7,126.44	91.46	278.93	88.45	789.82	7,876.98	4,667.09	4,276.43	390.66	11.947		
10,900.00	7,126.75	7,023.46	7,126.75	93.91	278.94	88.48	789.82	7,876.98	4,567.76	4,174.04	393.72	11.602		
11,000.00	7,127.06	7,023.77	7,127.06	96.37	278.95	88.51	789.82	7,876.98	4,468.45	4,071.67	396.78	11.262		
11,100.00	7,127.37	7,024.08	7,127.37	98.83	278.96	88.55	789.82	7,876.98	4,369.17	3,969.33	399.84	10.927		
11,200.00	7,127.68	7,024.39	7,127.68	101.30	278.98	88.58	789.82	7,876.98	4,269.93	3,867.02	402.91	10.598		
11,300.00	7,127.99	7,024.70	7,127.99	103.77	278.99	88.62	789.82	7,876.98	4,170.73	3,764.75	405.98	10.273		
11,400.00	7,128.30	7,025.01	7,128.30	106.24	279.00	88.65	789.82	7,876.98	4,071.56	3,662.51	409.05	9.954		
11,500.00	7,128.61	7,025.32	7,128.61	108.71	279.01	88.68	789.82	7,876.98	3,972.44	3,560.31	412.12	9.639		
11,600.00	7,128.92	7,025.63	7,128.92	111.19	279.03	88.72	789.82	7,876.98	3,873.36	3,458.16	415.20	9.329		
11,700.00	7,129.23	7,025.94	7,129.23	113.66	279.04	88.75	789.82	7,876.98	3,774.32	3,356.05	418.27	9.024		
11,800.00	7,129.54	7,026.25	7,129.54	116.14	279.05	88.78	789.82	7,876.98	3,675.35	3,253.99	421.35	8.723		
11,900.00	7,129.85	7,026.56	7,129.85	118.62	279.06	88.82	789.82	7,876.98	3,576.42	3,151.99	424.43	8.426		
12,000.00	7,130.16	7,026.87	7,130.16	121.11	279.07	88.85	789.82	7,876.98	3,477.56	3,050.05	427.51	8.134		
12,100.00	7,130.47	7,027.18	7,130.47	123.59	279.09	88.88	789.82	7,876.98	3,378.77	2,948.17	430.60	7.847		
12,200.00	7,130.78	7,027.49	7,130.78	126.08	279.10	88.92	789.82	7,876.98	3,280.05	2,846.37	433.68	7.563		
12,300.00	7,131.09	7,027.80	7,131.09	128.57	279.11	88.95	789.82	7,876.98	3,181.41	2,744.64	436.76	7.284		
12,400.00	7,131.40	7,028.11	7,131.40	131.06	279.12	88.98	789.82	7,876.98	3,082.85	2,643.00	439.85	7.009		
12,500.00	7,131.71	7,028.42	7,131.71	133.55	279.14	89.02	789.82	7,876.98	2,984.40	2,541.46	442.94	6.738		
12,600.00	7,132.02	7,028.73	7,132.02	136.04	279.15	89.05	789.82	7,876.98	2,886.05	2,440.02	446.02	6.471		
12,700.00	7,132.33	7,029.04	7,132.33	138.54	279.16	89.08	789.82	7,876.98	2,787.81	2,338.70	449.11	6.207		
12,800.00	7,132.64	7,029.35	7,132.64	141.03	279.17	89.12	789.82	7,876.98	2,689.71	2,237.51	452.20	5.948		
12,900.00	7,132.95	7,029.66	7,132.95	143.53	279.19	89.15	789.82	7,876.98	2,591.75	2,136.46	455.29	5.692		
13,000.00	7,133.26	7,029.97	7,133.26	146.02	279.20	89.18	789.82	7,876.98	2,493.96	2,035.57	458.38	5.441		
13,100.00	7,133.57	7,030.28	7,133.57	148.52	279.21	89.22	789.82	7,876.98	2,396.34	1,934.87	461.48	5.193		
13,200.00	7,133.88	7,030.59	7,133.88	151.02	279.22	89.25	789.82	7,876.98	2,298.93	1,834.36	464.57	4.949		
13,300.00	7,134.19	7,030.90	7,134.19	153.52	279.24	89.28	789.82	7,876.98	2,201.75	1,734.09	467.66	4.708		
13,400.00	7,134.50	7,031.21	7,134.50	156.02	279.25	89.32	789.82	7,876.98	2,104.84	1,634.09	470.75	4.471		
13,500.00	7,134.81	7,031.52	7,134.81	158.52	279.26	89.35	789.82	7,876.98	2,008.23	1,534.38	473.85	4.238		
13,600.00	7,135.12	7,031.83	7,135.12	161.03	279.27	89.39	789.82	7,876.98	1,911.97	1,435.03	476.94	4.009		
13,700.00	7,135.43	7,032.14	7,135.43	163.53	279.29	89.42	789.82	7,876.98	1,816.11	1,336.07	480.04	3.783		
13,800.00	7,135.74	7,032.45	7,135.74	166.03	279.30	89.45	789.82	7,876.98	1,720.73	1,237.59	483.13	3.562		
13,900.00	7,136.05	7,032.76	7,136.05	168.54	279.31	89.49	789.82	7,876.98	1,625.89	1,139.67	486.23	3.344		
14,000.00	7,136.36	7,033.07	7,136.36	171.04	279.32	89.52	789.82	7,876.98	1,531.72	1,042.39	489.33	3.130		
14,100.00	7,136.67	7,033.38	7,136.67	173.55	279.34	89.55	789.82	7,876.98	1,438.33	945.91	492.42	2.921		
14,200.00	7,136.98	7,033.69	7,136.98	176.05	279.35	89.59	789.82	7,876.98	1,345.90	850.38	495.52	2.716		
14,300.00	7,137.29	7,034.00	7,137.29	178.56	279.36	89.62	789.82	7,876.98	1,254.62	756.00	498.62	2.516		
14,400.00	7,137.60	7,034.31	7,137.60	181.07	279.37	89.65	789.82	7,876.98	1,164.78	663.06	501.71	2.322		
14,500.00	7,137.91	7,034.62	7,137.91	183.58	279.38	89.69	789.82	7,876.98	1,076.72	571.91	504.81	2.133		
14,600.00	7,138.22	7,034.93	7,138.22	186.09	279.40	89.72	789.82	7,876.98	990.94	483.03	507.91	1.951		
14,700.00	7,138.53	7,035.24	7,138.53	188.59	279.41	89.75	789.82	7,876.98	908.08	397.07	511.01	1.777		
14,800.00	7,138.84	7,035.55	7,138.84	191.10	279.42	89.79	789.82	7,876.98	829.00	314.89	514.11	1.613		
14,900.00	7,139.15	7,035.86	7,139.15	193.61	279.43	89.82	789.82	7,876.98	754.90	237.69	517.20	1.460 Monitor		
15,000.00	7,139.46	7,036.17	7,139.46	196.13	279.45	89.85	789.82	7,876.98	687.39	167.08	520.30	1.321 Monitor		
15,100.00	7,139.77	7,036.48	7,139.77	198.64	279.46	89.89	789.82	7,876.98	628.60	105.19	523.40	1.201 Shut In Offsets		
15,200.00	7,140.08	7,036.79	7,140.08	201.15	279.47	89.92	789.82	7,876.98	581.18	54.67	526.50	1.104 Shut In Offsets		
15,300.00	7,140.39	7,037.10	7,140.39	203.66	279.48	89.95	789.82	7,876.98	548.08	18.48	529.60	1.035 Shut In Offsets		
15,400.00	7,140.70	7,037.41	7,140.70	206.17	279.50	89.99	789.82	7,876.98	532.00	-0.70	532.70	0.999 Stop Drilling		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321M - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,436.84	7,140.82	7,037.53	7,140.82	207.10	279.50	90.00	789.82	7,876.98	530.73	-3.47	534.20	0.993	Stop Drilling, CC, ES, SF	
15,500.00	7,141.01	7,037.72	7,141.01	208.68	279.51	90.02	789.82	7,876.98	534.47	-1.33	535.80	0.998		
15,600.00	7,141.32	7,038.03	7,141.32	211.20	279.52	90.05	789.82	7,876.98	555.24	16.34	538.90	1.030		
15,700.00	7,141.63	7,038.34	7,141.63	213.71	279.53	90.09	789.82	7,876.98	592.39	50.39	542.00	1.093		
15,800.00	7,141.94	7,038.65	7,141.94	216.22	279.55	90.12	789.82	7,876.98	643.08	97.98	545.10	1.180		
15,900.00	7,142.25	7,038.96	7,142.25	218.74	279.56	90.16	789.82	7,876.98	704.40	156.21	548.20	1.285		
16,000.00	7,142.56	7,039.27	7,142.56	221.25	279.57	90.19	789.82	7,876.98	773.83	222.53	551.30	1.404	Monitor	
16,100.00	7,142.87	7,039.58	7,142.87	223.77	279.58	90.22	789.82	7,876.98	849.38	294.98	554.40	1.532		
16,200.00	7,143.18	7,039.89	7,143.18	226.28	279.60	90.26	789.82	7,876.98	929.56	372.06	557.50	1.667		
16,300.00	7,143.49	7,040.20	7,143.49	228.80	279.61	90.29	789.82	7,876.98	1,013.27	452.67	560.60	1.807		
16,400.00	7,143.80	7,040.51	7,143.80	231.31	279.62	90.32	789.82	7,876.98	1,099.70	536.00	563.70	1.951		
16,500.00	7,144.11	7,040.82	7,144.11	233.83	279.63	90.36	789.82	7,876.98	1,188.26	621.46	566.80	2.096		
16,600.00	7,144.42	7,041.13	7,144.42	236.34	279.65	90.39	789.82	7,876.98	1,278.51	708.61	569.90	2.243		
16,700.00	7,144.73	7,041.44	7,144.73	238.86	279.66	90.42	789.82	7,876.98	1,370.12	797.12	573.00	2.391		
16,800.00	7,145.05	7,041.76	7,145.05	241.37	279.67	90.46	789.82	7,876.98	1,462.82	886.73	576.10	2.539		
16,900.00	7,145.36	7,042.07	7,145.36	243.89	279.68	90.49	789.82	7,876.98	1,556.43	977.23	579.20	2.687		
17,000.00	7,145.67	7,042.38	7,145.67	246.41	279.70	90.52	789.82	7,876.98	1,650.79	1,068.49	582.30	2.835		
17,100.00	7,145.98	7,042.69	7,145.98	248.93	279.71	90.56	789.82	7,876.98	1,745.78	1,160.38	585.40	2.982		
17,200.00	7,146.29	7,043.00	7,146.29	251.44	279.72	90.59	789.82	7,876.98	1,841.30	1,252.80	588.50	3.129		
17,300.00	7,146.60	7,043.31	7,146.60	253.96	279.73	90.62	789.82	7,876.98	1,937.27	1,345.67	591.60	3.275		
17,400.00	7,146.91	7,043.62	7,146.91	256.48	279.74	90.66	789.82	7,876.98	2,033.62	1,438.93	594.70	3.420		
17,430.36	7,147.00	7,043.71	7,147.00	257.24	279.75	90.67	789.82	7,876.98	2,062.95	1,467.31	595.64	3.463		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321N - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	132.32	0.00	0.00	102.26	-1,992.47	9,172.38	9,387.23				
100.00	100.00	0.00	132.32	0.08	0.00	102.26	-1,992.47	9,172.38	9,386.35				
149.25	149.25	16.93	149.25	0.19	0.34	102.26	-1,992.47	9,172.38	9,386.29	9,385.76	0.53	N/A	
200.00	200.00	67.68	200.00	0.31	1.35	102.26	-1,992.47	9,172.38	9,386.29	9,384.63	1.66	5,645.150	
300.00	300.00	100.00	232.32	0.53	2.00	102.26	-1,992.47	9,172.38	9,386.54	9,384.00	2.53	3,704.501	
400.00	400.00	100.00	232.32	0.76	2.00	102.26	-1,992.47	9,172.38	9,387.79	9,385.03	2.76	3,403.117	
500.00	500.00	100.00	232.32	0.98	2.00	102.26	-1,992.47	9,172.38	9,390.11	9,387.13	2.98	3,147.503	
600.00	600.00	100.00	232.32	1.21	2.00	102.26	-1,992.47	9,172.38	9,393.49	9,390.28	3.21	2,928.038	
700.00	700.00	100.00	232.32	1.43	2.00	102.26	-1,992.47	9,172.38	9,397.94	9,394.50	3.43	2,737.622	
800.00	800.00	100.00	232.32	1.66	2.00	102.26	-1,992.47	9,172.38	9,403.44	9,399.79	3.66	2,570.898	
900.00	900.00	100.00	232.32	1.88	2.00	102.26	-1,992.47	9,172.38	9,410.01	9,406.13	3.88	2,423.751	
1,000.00	1,000.00	100.00	232.32	2.11	2.00	102.26	-1,992.47	9,172.38	9,417.63	9,413.53	4.11	2,292.967	
1,100.00	1,099.98	100.00	232.32	2.33	2.00	125.72	-1,992.47	9,172.38	9,427.33	9,423.00	4.33	2,177.262	
1,200.00	1,199.84	100.00	232.32	2.56	2.00	125.51	-1,992.47	9,172.38	9,440.10	9,435.54	4.55	2,074.191	
1,300.00	1,299.45	100.00	232.32	2.79	2.00	125.24	-1,992.47	9,172.38	9,455.91	9,451.13	4.78	1,979.847	
1,400.00	1,398.70	100.00	232.32	3.03	2.00	124.93	-1,992.47	9,172.38	9,474.73	9,469.71	5.01	1,891.119	
1,500.00	1,497.47	100.00	232.32	3.30	2.00	124.56	-1,992.47	9,172.38	9,496.51	9,491.25	5.26	1,805.344	
1,600.00	1,595.62	100.00	232.32	3.61	2.00	124.14	-1,992.47	9,172.38	9,521.22	9,515.69	5.53	1,720.485	
1,700.00	1,693.06	100.00	232.32	3.95	2.00	123.67	-1,992.47	9,172.38	9,548.80	9,542.96	5.84	1,635.227	
1,800.00	1,789.64	100.00	232.32	4.35	2.00	123.13	-1,992.47	9,172.38	9,579.19	9,573.01	6.18	1,548.987	
1,900.00	1,885.30	100.00	232.32	4.80	2.00	122.68	-1,992.47	9,172.38	9,612.28	9,605.71	6.58	1,461.824	
2,000.00	1,980.64	100.00	232.32	5.29	2.00	122.68	-1,992.47	9,172.38	9,646.83	9,639.83	7.00	1,378.039	
2,100.00	2,075.99	100.00	232.32	5.80	2.00	122.68	-1,992.47	9,172.38	9,682.28	9,674.84	7.44	1,300.740	
2,200.00	2,171.34	100.00	232.32	6.33	2.00	122.68	-1,992.47	9,172.38	9,718.88	9,710.74	7.90	1,230.017	
2,300.00	2,266.68	100.00	232.32	6.87	2.00	122.68	-1,992.47	9,172.38	9,755.64	9,747.51	8.37	1,165.579	
2,400.00	2,362.03	100.00	232.32	7.41	2.00	122.68	-1,992.47	9,172.38	9,794.00	9,785.16	8.85	1,106.959	
2,500.00	2,457.38	100.00	232.32	7.97	2.00	122.68	-1,992.47	9,172.38	9,833.00	9,823.67	9.33	1,053.625	
2,600.00	2,552.72	100.00	232.32	8.53	2.00	122.68	-1,992.47	9,172.38	9,872.85	9,863.03	9.82	1,005.048	
2,700.00	2,648.07	100.00	232.32	9.10	2.00	122.68	-1,992.47	9,172.38	9,913.55	9,903.23	10.32	960.726	
2,800.00	2,743.42	100.00	232.32	9.67	2.00	122.68	-1,992.47	9,172.38	9,955.09	9,944.27	10.82	920.203	
2,900.00	2,838.77	100.00	232.32	10.24	2.00	122.68	-1,992.47	9,172.38	9,997.46	9,986.13	11.32	883.067	
3,000.00	2,934.11	100.00	232.32	10.82	2.00	122.68	-1,992.47	9,172.38	10,040.64	10,028.81	11.83	848.955	
3,100.00	3,029.46	100.00	232.32	11.40	2.00	122.68	-1,992.47	9,172.38	10,084.63	10,072.29	12.34	817.545	
3,200.00	3,124.81	100.00	232.32	11.98	2.00	122.68	-1,992.47	9,172.38	10,129.42	10,116.57	12.85	788.554	
3,300.00	3,220.15	100.00	232.32	12.56	2.00	122.68	-1,992.47	9,172.38	10,174.99	10,161.63	13.36	761.733	
3,400.00	3,315.50	100.00	232.32	13.14	2.00	122.68	-1,992.47	9,172.38	10,221.34	10,207.46	13.87	736.866	
3,500.00	3,410.85	100.00	232.32	13.73	2.00	122.68	-1,992.47	9,172.38	10,268.45	10,254.06	14.39	713.759	
3,600.00	3,506.19	100.00	232.32	14.32	2.00	122.68	-1,992.47	9,172.38	10,316.31	10,301.41	14.90	692.243	
3,700.00	3,601.54	100.00	232.32	14.91	2.00	122.68	-1,992.47	9,172.38	10,364.92	10,349.50	15.42	672.170	
3,800.00	3,696.89	100.00	232.32	15.50	2.00	122.68	-1,992.47	9,172.38	10,414.27	10,398.33	15.94	653.407	
3,900.00	3,792.24	100.00	232.32	16.09	2.00	122.68	-1,992.47	9,172.38	10,464.33	10,447.88	16.46	635.836	
4,000.00	3,887.58	100.00	232.32	16.68	2.00	122.68	-1,992.47	9,172.38	10,515.11	10,498.13	16.98	619.355	
4,100.00	3,982.93	100.00	232.32	17.27	2.00	122.68	-1,992.47	9,172.38	10,566.59	10,549.10	17.50	603.869	
4,200.00	4,078.28	100.00	232.32	17.86	2.00	122.68	-1,992.47	9,172.38	10,618.77	10,600.75	18.02	589.296	
4,300.00	4,173.62	100.00	232.32	18.45	2.00	122.68	-1,992.47	9,172.38	10,671.62	10,653.08	18.54	575.562	
4,400.00	4,268.97	100.00	232.32	19.05	2.00	122.68	-1,992.47	9,172.38	10,725.15	10,706.09	19.06	562.600	
4,500.00	4,364.32	100.00	232.32	19.64	2.00	122.68	-1,992.47	9,172.38	10,779.34	10,759.75	19.59	550.350	
4,600.00	4,459.67	100.00	232.32	20.23	2.00	122.68	-1,992.47	9,172.38	10,834.18	10,814.07	20.11	538.758	
4,700.00	4,555.01	100.00	232.32	20.83	2.00	122.68	-1,992.47	9,172.38	10,889.67	10,869.03	20.63	527.775	
4,800.00	4,650.36	100.00	232.32	21.42	2.00	122.68	-1,992.47	9,172.38	10,945.78	10,924.62	21.16	517.356	
4,900.00	4,745.71	100.00	232.32	22.02	2.00	122.68	-1,992.47	9,172.38	11,002.52	10,980.84	21.68	507.463	
5,000.00	4,841.05	100.00	232.32	22.61	2.00	122.68	-1,992.47	9,172.38	11,059.87	11,037.67	22.21	498.057	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321N - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	100.00	232.32	23.21	2.00	122.68	-1,992.47	9,172.38	11,117.83	11,095.10	22.73	489.106		
5,200.00	5,031.75	100.00	232.32	23.80	2.00	122.68	-1,992.47	9,172.38	11,176.38	11,153.12	23.26	480.579		
5,300.00	5,127.09	100.00	232.32	24.40	2.00	122.68	-1,992.47	9,172.38	11,235.51	11,211.73	23.78	472.449		
5,400.00	5,222.44	100.00	232.32	25.00	2.00	122.68	-1,992.47	9,172.38	11,295.22	11,270.91	24.31	464.690		
5,500.00	5,317.79	100.00	232.32	25.59	2.00	122.68	-1,992.47	9,172.38	11,355.50	11,330.67	24.83	457.277		
5,600.00	5,413.14	100.00	232.32	26.19	2.00	122.68	-1,992.47	9,172.38	11,416.33	11,390.97	25.36	450.191		
5,700.00	5,508.48	100.00	232.32	26.78	2.00	122.70	-1,992.47	9,172.38	11,477.72	11,451.83	25.88	443.473		
5,800.00	5,604.35	100.00	232.32	27.24	2.00	123.99	-1,992.47	9,172.38	11,538.87	11,512.78	26.09	442.317		
5,900.00	5,701.15	100.00	232.32	27.65	2.00	125.23	-1,992.47	9,172.38	11,599.02	11,572.76	26.25	441.844		
6,000.00	5,798.77	100.00	232.32	28.02	2.00	126.42	-1,992.47	9,172.38	11,658.10	11,631.73	26.37	442.033		
6,100.00	5,897.08	100.00	232.32	28.35	2.00	127.56	-1,992.47	9,172.38	11,716.07	11,689.62	26.46	442.867		
6,200.00	5,995.98	100.00	232.32	28.63	2.00	128.64	-1,992.47	9,172.38	11,772.87	11,746.38	26.50	444.332		
6,300.00	6,095.33	100.00	232.32	28.87	2.00	129.68	-1,992.47	9,172.38	11,828.45	11,801.96	26.50	446.418		
6,400.00	6,195.01	100.00	232.32	29.06	2.00	130.67	-1,992.47	9,172.38	11,882.76	11,856.30	26.46	449.115		
6,500.00	6,294.91	100.00	232.32	29.20	2.00	131.61	-1,992.47	9,172.38	11,935.75	11,909.36	26.38	452.421		
6,600.00	6,394.89	100.00	232.32	29.30	2.00	18.46	-1,992.47	9,172.38	11,987.09	11,960.77	26.32	455.354		
6,700.00	6,494.28	100.00	232.32	29.34	2.00	17.29	-1,992.47	9,172.38	12,030.15	12,004.09	26.06	461.580		
6,800.00	6,591.26	100.00	232.32	29.31	2.00	16.51	-1,992.47	9,172.38	12,061.57	12,036.35	25.22	478.271		
6,900.00	6,683.95	100.00	232.32	29.23	2.00	16.07	-1,992.47	9,172.38	12,080.84	12,057.01	23.82	507.137		
7,000.00	6,770.55	100.00	232.32	29.09	2.00	15.92	-1,992.47	9,172.38	12,087.63	12,065.72	21.91	551.577		
7,100.00	6,849.36	100.00	232.32	28.92	2.00	16.05	-1,992.47	9,172.38	12,081.84	12,062.28	19.56	617.686		
7,200.00	6,918.86	100.00	232.32	28.73	2.00	16.47	-1,992.47	9,172.38	12,063.57	12,046.72	16.84	716.267		
7,300.00	6,977.70	100.00	232.32	28.54	2.00	17.21	-1,992.47	9,172.38	12,033.10	12,019.22	13.89	866.497		
7,400.00	7,027.98	100.00	232.32	28.35	2.00	17.61	-1,992.47	9,172.38	11,994.15	11,981.10	13.05	918.968		
7,500.00	7,070.01	100.00	232.32	28.19	2.00	18.92	-1,992.47	9,172.38	11,947.92	11,937.33	10.59	1,128.536		
7,600.00	7,099.01	100.00	232.32	28.06	2.00	20.81	-1,992.47	9,172.38	11,891.02	11,882.07	8.94	1,330.084		
7,700.00	7,114.42	100.00	232.32	27.97	2.00	23.51	-1,992.47	9,172.38	11,824.40	11,815.24	9.16	1,290.727		
7,800.00	7,117.13	100.00	232.32	28.00	2.00	25.63	-1,992.47	9,172.38	11,749.89	11,739.00	10.90	1,078.208		
7,900.00	7,117.44	100.00	232.32	28.26	2.00	25.63	-1,992.47	9,172.38	11,674.30	11,662.15	12.15	961.105		
8,000.00	7,117.75	100.00	232.32	28.94	2.00	25.63	-1,992.47	9,172.38	11,599.07	11,585.61	13.46	862.007		
8,100.00	7,118.06	100.00	232.32	30.16	2.00	25.63	-1,992.47	9,172.38	11,524.22	11,509.41	14.81	778.228		
8,200.00	7,118.37	100.00	232.32	31.76	2.00	25.63	-1,992.47	9,172.38	11,449.75	11,433.56	16.19	707.104		
8,300.00	7,118.68	100.00	232.32	33.58	2.00	25.63	-1,992.47	9,172.38	11,375.68	11,358.08	17.60	646.326		
8,400.00	7,118.99	100.00	232.32	35.53	2.00	25.63	-1,992.47	9,172.38	11,302.00	11,282.97	19.03	594.002		
8,500.00	7,119.30	100.00	232.32	37.56	2.00	25.63	-1,992.47	9,172.38	11,228.73	11,208.26	20.47	548.614		
8,600.00	7,119.61	100.00	232.32	39.66	2.00	25.63	-1,992.47	9,172.38	11,155.88	11,133.96	21.92	508.951		
8,700.00	7,119.92	100.00	232.32	41.80	2.00	25.63	-1,992.47	9,172.38	11,083.45	11,060.07	23.38	474.049		
8,800.00	7,120.23	100.00	232.32	43.99	2.00	25.63	-1,992.47	9,172.38	11,011.45	10,986.60	24.85	443.139		
8,900.00	7,120.54	100.00	232.32	46.22	2.00	25.63	-1,992.47	9,172.38	10,939.89	10,913.57	26.32	415.597		
9,000.00	7,120.85	100.00	232.32	48.47	2.00	25.63	-1,992.47	9,172.38	10,868.78	10,840.98	27.80	390.922		
9,100.00	7,121.16	100.00	232.32	50.75	2.00	25.63	-1,992.47	9,172.38	10,798.13	10,768.84	29.29	368.702		
9,200.00	7,121.47	100.00	232.32	53.05	2.00	25.63	-1,992.47	9,172.38	10,727.95	10,697.17	30.77	348.600		
9,300.00	7,121.78	100.00	232.32	55.37	2.00	25.63	-1,992.47	9,172.38	10,658.24	10,625.97	32.27	330.333		
9,400.00	7,122.09	100.00	232.32	57.71	2.00	25.63	-1,992.47	9,172.38	10,589.02	10,555.26	33.76	313.670		
9,500.00	7,122.40	100.00	232.32	60.06	2.00	25.63	-1,992.47	9,172.38	10,520.29	10,485.03	35.25	298.412		
9,600.00	7,122.71	100.00	232.32	62.43	2.00	25.63	-1,992.47	9,172.38	10,452.07	10,415.31	36.75	284.395		
9,700.00	7,123.02	100.00	232.32	64.80	2.00	25.63	-1,992.47	9,172.38	10,384.36	10,346.11	38.25	271.476		
9,800.00	7,123.33	100.00	232.32	67.19	2.00	25.63	-1,992.47	9,172.38	10,317.17	10,277.42	39.75	259.534		
9,900.00	7,123.65	100.00	232.32	69.59	2.00	25.63	-1,992.47	9,172.38	10,250.53	10,209.27	41.26	248.466		
10,000.00	7,123.96	100.00	232.32	71.99	2.00	25.63	-1,992.47	9,172.38	10,184.42	10,141.67	42.76	238.182		
10,100.00	7,124.27	100.00	232.32	74.40	2.00	25.63	-1,992.47	9,172.38	10,118.88	10,074.61	44.26	228.603		
10,200.00	7,124.58	100.00	232.32	76.82	2.00	25.63	-1,992.47	9,172.38	10,053.90	10,008.13	45.77	219.662		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321N - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,300.00	7,124.89	100.00	232.32	79.25	2.00	25.63	-1,992.47	9,172.38	9,989.50	9,942.22	47.28	211.299			
10,400.00	7,125.20	100.00	232.32	81.68	2.00	25.63	-1,992.47	9,172.38	9,925.69	9,876.91	48.78	203.461			
10,500.00	7,125.51	100.00	232.32	84.12	2.00	25.63	-1,992.47	9,172.38	9,862.48	9,812.19	50.29	196.101			
10,600.00	7,125.82	100.00	232.32	86.56	2.00	25.63	-1,992.47	9,172.38	9,799.88	9,748.08	51.80	189.180			
10,700.00	7,126.13	100.00	232.32	89.01	2.00	25.63	-1,992.47	9,172.38	9,737.91	9,684.60	53.31	182.660			
10,800.00	7,126.44	100.00	232.32	91.46	2.00	25.63	-1,992.47	9,172.38	9,676.58	9,621.75	54.82	176.510			
10,900.00	7,126.75	100.00	232.32	93.91	2.00	25.63	-1,992.47	9,172.38	9,615.89	9,559.56	56.33	170.698			
11,000.00	7,127.06	100.00	232.32	96.37	2.00	25.63	-1,992.47	9,172.38	9,555.86	9,498.02	57.84	165.201			
11,100.00	7,127.37	100.00	232.32	98.83	2.00	25.63	-1,992.47	9,172.38	9,496.51	9,437.16	59.36	159.994			
11,200.00	7,127.68	100.00	232.32	101.30	2.00	25.63	-1,992.47	9,172.38	9,437.85	9,376.98	60.87	155.055			
11,300.00	7,127.99	100.00	232.32	103.77	2.00	25.63	-1,992.47	9,172.38	9,379.88	9,317.50	62.38	150.366			
11,400.00	7,128.30	100.00	232.32	106.24	2.00	25.63	-1,992.47	9,172.38	9,322.63	9,258.73	63.89	145.910			
11,500.00	7,128.61	100.00	232.32	108.71	2.00	25.63	-1,992.47	9,172.38	9,266.10	9,200.69	65.41	141.670			
11,600.00	7,128.92	100.00	232.32	111.19	2.00	25.63	-1,992.47	9,172.38	9,210.31	9,143.39	66.92	137.632			
11,700.00	7,129.23	100.00	232.32	113.66	2.00	25.63	-1,992.47	9,172.38	9,155.27	9,086.84	68.43	133.783			
11,800.00	7,129.54	100.00	232.32	116.14	2.00	25.63	-1,992.47	9,172.38	9,101.00	9,031.05	69.95	130.112			
11,900.00	7,129.85	100.00	232.32	118.62	2.00	25.63	-1,992.47	9,172.38	9,047.51	8,976.05	71.46	126.606			
12,000.00	7,130.16	100.00	232.32	121.11	2.00	25.63	-1,992.47	9,172.38	8,994.81	8,921.83	72.98	123.257			
12,100.00	7,130.47	100.00	232.32	123.59	2.00	25.63	-1,992.47	9,172.38	8,942.92	8,868.43	74.49	120.054			
12,200.00	7,130.78	100.00	232.32	126.08	2.00	25.63	-1,992.47	9,172.38	8,891.85	8,815.84	76.01	116.989			
12,300.00	7,131.09	100.00	232.32	128.57	2.00	25.63	-1,992.47	9,172.38	8,841.62	8,764.10	77.52	114.054			
12,400.00	7,131.40	100.00	232.32	131.06	2.00	25.63	-1,992.47	9,172.38	8,792.24	8,713.20	79.04	111.243			
12,500.00	7,131.71	100.00	232.32	133.55	2.00	25.63	-1,992.47	9,172.38	8,743.72	8,663.17	80.55	108.548			
12,600.00	7,132.02	100.00	232.32	136.04	2.00	25.63	-1,992.47	9,172.38	8,696.08	8,614.01	82.07	105.963			
12,700.00	7,132.33	100.00	232.32	138.54	2.00	25.63	-1,992.47	9,172.38	8,649.34	8,565.75	83.58	103.482			
12,800.00	7,132.64	100.00	232.32	141.03	2.00	25.63	-1,992.47	9,172.38	8,603.50	8,518.40	85.10	101.100			
12,900.00	7,132.95	100.00	232.32	143.53	2.00	25.63	-1,992.47	9,172.38	8,558.59	8,471.97	86.62	98.812			
13,000.00	7,133.26	100.00	232.32	146.02	2.00	25.63	-1,992.47	9,172.38	8,514.61	8,426.48	88.13	96.613			
13,100.00	7,133.57	100.00	232.32	148.52	2.00	25.63	-1,992.47	9,172.38	8,471.59	8,381.94	89.65	94.499			
13,200.00	7,133.88	100.00	232.32	151.02	2.00	25.63	-1,992.47	9,172.38	8,429.53	8,338.37	91.16	92.465			
13,300.00	7,134.19	100.00	232.32	153.52	2.00	25.63	-1,992.47	9,172.38	8,388.46	8,295.78	92.68	90.509			
13,400.00	7,134.50	100.00	232.32	156.02	2.00	25.63	-1,992.47	9,172.38	8,348.38	8,254.18	94.20	88.627			
13,500.00	7,134.81	100.00	232.32	158.52	2.00	25.63	-1,992.47	9,172.38	8,309.31	8,213.60	95.71	86.814			
13,600.00	7,135.12	100.00	232.32	161.03	2.00	25.63	-1,992.47	9,172.38	8,271.27	8,174.04	97.23	85.068			
13,700.00	7,135.43	100.00	232.32	163.53	2.00	25.63	-1,992.47	9,172.38	8,234.26	8,135.52	98.75	83.387			
13,800.00	7,135.74	100.00	232.32	166.03	2.00	25.63	-1,992.47	9,172.38	8,198.31	8,098.05	100.26	81.767			
13,900.00	7,136.05	100.00	232.32	168.54	2.00	25.63	-1,992.47	9,172.38	8,163.42	8,061.64	101.78	80.205			
14,000.00	7,136.36	100.00	232.32	171.04	2.00	25.63	-1,992.47	9,172.38	8,129.62	8,026.32	103.30	78.700			
14,100.00	7,136.67	100.00	232.32	173.55	2.00	25.63	-1,992.47	9,172.38	8,096.91	7,992.09	104.82	77.249			
14,200.00	7,136.98	100.00	232.32	176.05	2.00	25.63	-1,992.47	9,172.38	8,065.30	7,958.97	106.33	75.849			
14,300.00	7,137.29	100.00	232.32	178.56	2.00	25.63	-1,992.47	9,172.38	8,034.82	7,926.97	107.85	74.499			
14,400.00	7,137.60	100.00	232.32	181.07	2.00	25.63	-1,992.47	9,172.38	8,005.47	7,896.10	109.37	73.197			
14,500.00	7,137.91	100.00	232.32	183.58	2.00	25.63	-1,992.47	9,172.38	7,977.26	7,866.38	110.89	71.941			
14,600.00	7,138.22	100.00	232.32	186.09	2.00	25.63	-1,992.47	9,172.38	7,950.22	7,837.81	112.40	70.729			
14,700.00	7,138.53	100.00	232.32	188.59	2.00	25.63	-1,992.47	9,172.38	7,924.34	7,810.42	113.92	69.560			
14,800.00	7,138.84	100.00	232.32	191.10	2.00	25.63	-1,992.47	9,172.38	7,899.64	7,784.20	115.44	68.431			
14,900.00	7,139.15	100.00	232.32	193.61	2.00	25.63	-1,992.47	9,172.38	7,876.14	7,759.18	116.96	67.342			
15,000.00	7,139.46	100.00	232.32	196.13	2.00	25.63	-1,992.47	9,172.38	7,853.84	7,735.36	118.47	66.291			
15,100.00	7,139.77	100.00	232.32	198.64	2.00	25.63	-1,992.47	9,172.38	7,832.75	7,712.76	119.99	65.277			
15,200.00	7,140.08	100.00	232.32	201.15	2.00	25.63	-1,992.47	9,172.38	7,812.88	7,691.37	121.51	64.298			
15,300.00	7,140.39	100.00	232.32	203.66	2.00	25.63	-1,992.47	9,172.38	7,794.25	7,671.22	123.03	63.353			
15,400.00	7,140.70	100.00	232.32	206.17	2.00	25.63	-1,992.47	9,172.38	7,776.86	7,652.32	124.55	62.442			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 321N - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	7,141.01	100.00	232.32	208.68	2.00	25.63	-1,992.47	9,172.38	7,760.72	7,634.66	126.06	61.562	
15,600.00	7,141.32	100.00	232.32	211.20	2.00	25.63	-1,992.47	9,172.38	7,745.84	7,618.25	127.58	60.713	
15,700.00	7,141.63	100.00	232.32	213.71	2.00	25.63	-1,992.47	9,172.38	7,732.22	7,603.12	129.10	59.893	
15,800.00	7,141.94	100.00	232.32	216.22	2.00	25.63	-1,992.47	9,172.38	7,719.87	7,589.25	130.62	59.103	
15,900.00	7,142.25	100.00	232.32	218.74	2.00	25.63	-1,992.47	9,172.38	7,708.80	7,576.66	132.14	58.340	
16,000.00	7,142.56	100.00	232.32	221.25	2.00	25.63	-1,992.47	9,172.38	7,699.01	7,565.36	133.65	57.604	
16,100.00	7,142.87	100.00	232.32	223.77	2.00	25.63	-1,992.47	9,172.38	7,690.51	7,555.34	135.17	56.894	
16,200.00	7,143.18	100.00	232.32	226.28	2.00	25.63	-1,992.47	9,172.38	7,683.31	7,546.62	136.69	56.209	
16,300.00	7,143.49	100.00	232.32	228.80	2.00	25.63	-1,992.47	9,172.38	7,677.40	7,539.19	138.21	55.549	
16,400.00	7,143.80	100.00	232.32	231.31	2.00	25.63	-1,992.47	9,172.38	7,672.78	7,533.06	139.73	54.912	
16,500.00	7,144.11	100.00	232.32	233.83	2.00	25.63	-1,992.47	9,172.38	7,669.47	7,528.23	141.25	54.299	
16,600.00	7,144.42	100.00	232.32	236.34	2.00	25.63	-1,992.47	9,172.38	7,667.47	7,524.70	142.76	53.707	
16,700.00	7,144.73	100.00	232.32	238.86	2.00	25.63	-1,992.47	9,172.38	7,666.76	7,522.48	144.28	53.137	
16,703.97	7,144.75	100.00	232.32	238.96	2.00	25.63	-1,992.47	9,172.38	7,666.76	7,522.18	144.58	53.028 CC	
16,800.00	7,145.05	100.00	232.32	241.37	2.00	25.63	-1,992.47	9,172.38	7,667.36	7,521.56	145.80	52.588 ES	
16,900.00	7,145.36	100.00	232.32	243.89	2.00	25.63	-1,992.47	9,172.38	7,669.27	7,521.95	147.32	52.059	
17,000.00	7,145.67	100.00	232.32	246.41	2.00	25.63	-1,992.47	9,172.38	7,672.47	7,523.64	148.84	51.549	
17,100.00	7,145.98	100.00	232.32	248.93	2.00	25.63	-1,992.47	9,172.38	7,676.98	7,526.63	150.36	51.058	
17,200.00	7,146.29	100.00	232.32	251.44	2.00	25.63	-1,992.47	9,172.38	7,682.79	7,530.91	151.88	50.586	
17,300.00	7,146.60	100.00	232.32	253.96	2.00	25.63	-1,992.47	9,172.38	7,689.89	7,536.50	153.39	50.132	
17,400.00	7,146.91	100.00	232.32	256.48	2.00	25.63	-1,992.47	9,172.38	7,698.29	7,543.38	154.91	49.694	
17,430.36	7,147.00	100.00	232.32	257.24	2.00	25.63	-1,992.47	9,172.38	7,701.09	7,545.72	155.37	49.565 SF	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 322M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	62.65	0.00	0.00	1.25	82.38	858.81	6,420.67	6,477.85					
100.00	100.00	162.65	100.00	0.08	4.51	82.38	858.81	6,420.67	6,477.85	6,473.26	4.59	1,411.208		
200.00	200.00	262.65	200.00	0.31	8.51	82.38	858.81	6,420.67	6,477.85	6,469.04	8.82	734.862		
300.00	300.00	362.65	300.00	0.53	12.51	82.38	858.81	6,420.67	6,477.85	6,464.81	13.04	496.775		
400.00	400.00	462.65	400.00	0.76	16.51	82.38	858.81	6,420.67	6,477.85	6,460.59	17.26	375.210		
500.00	500.00	562.65	500.00	0.98	20.51	82.38	858.81	6,420.67	6,477.85	6,456.36	21.49	301.445		
600.00	600.00	662.65	600.00	1.21	24.51	82.38	858.81	6,420.67	6,477.85	6,452.14	25.71	251.918		
700.00	700.00	762.65	700.00	1.43	28.51	82.38	858.81	6,420.67	6,477.85	6,447.91	29.94	216.369		
800.00	800.00	862.65	800.00	1.66	32.51	82.38	858.81	6,420.67	6,477.85	6,443.69	34.16	189.612		
900.00	900.00	962.65	900.00	1.88	36.51	82.38	858.81	6,420.67	6,477.85	6,439.46	38.39	168.745		
1,000.00	1,000.00	1,062.65	1,000.00	2.11	40.51	82.38	858.81	6,420.67	6,477.85	6,435.24	42.61	152.015		
1,100.00	1,099.98	1,162.63	1,099.98	2.33	44.51	106.00	858.81	6,420.67	6,478.33	6,431.50	46.83	138.327		
1,200.00	1,199.84	1,262.49	1,199.84	2.56	48.50	106.02	858.81	6,420.67	6,479.78	6,428.73	51.04	126.946		
1,300.00	1,299.45	1,362.10	1,299.45	2.79	52.48	106.05	858.81	6,420.67	6,482.19	6,426.95	55.24	117.336		
1,400.00	1,398.70	1,461.35	1,398.70	3.03	56.45	106.09	858.81	6,420.67	6,485.59	6,426.15	59.44	109.116		
1,500.00	1,497.47	1,560.12	1,497.47	3.30	60.40	106.13	858.81	6,420.67	6,489.98	6,426.36	63.63	102.003		
1,600.00	1,595.62	1,658.27	1,595.62	3.61	64.33	106.19	858.81	6,420.67	6,495.38	6,427.57	67.81	95.788		
1,700.00	1,693.06	1,755.71	1,693.06	3.95	68.23	106.25	858.81	6,420.67	6,501.82	6,429.83	72.00	90.309		
1,800.00	1,789.64	1,852.29	1,789.64	4.35	72.09	106.32	858.81	6,420.67	6,509.31	6,433.13	76.18	85.445		
1,900.00	1,885.30	1,947.95	1,885.30	4.80	75.92	106.43	858.81	6,420.67	6,517.87	6,437.48	80.38	81.086		
2,000.00	1,980.64	2,043.29	1,980.64	5.29	79.73	106.67	858.81	6,420.67	6,526.84	6,442.19	84.64	77.111		
2,100.00	2,075.99	2,138.64	2,075.99	5.80	83.55	106.91	858.81	6,420.67	6,535.93	6,447.01	88.92	73.503		
2,200.00	2,171.34	2,233.99	2,171.34	6.33	87.36	107.15	858.81	6,420.67	6,545.16	6,451.94	93.21	70.217		
2,300.00	2,266.68	2,329.33	2,266.68	6.87	91.17	107.40	858.81	6,420.67	6,554.51	6,456.99	97.51	67.215		
2,400.00	2,362.03	2,424.68	2,362.03	7.41	94.99	107.64	858.81	6,420.67	6,563.98	6,462.15	101.82	64.464		
2,500.00	2,457.38	2,520.03	2,457.38	7.97	98.80	107.88	858.81	6,420.67	6,573.58	6,467.44	106.14	61.933		
2,600.00	2,552.72	2,615.37	2,552.72	8.53	102.61	108.12	858.81	6,420.67	6,583.30	6,472.84	110.46	59.600		
2,700.00	2,648.07	2,710.72	2,648.07	9.10	106.43	108.35	858.81	6,420.67	6,593.15	6,478.37	114.78	57.442		
2,800.00	2,743.42	2,806.07	2,743.42	9.67	110.24	108.59	858.81	6,420.67	6,603.12	6,484.01	119.10	55.440		
2,900.00	2,838.77	2,901.42	2,838.77	10.24	114.06	108.83	858.81	6,420.67	6,613.21	6,489.78	123.43	53.579		
3,000.00	2,934.11	2,996.76	2,934.11	10.82	117.87	109.07	858.81	6,420.67	6,623.42	6,495.67	127.75	51.845		
3,100.00	3,029.46	3,092.11	3,029.46	11.40	121.68	109.30	858.81	6,420.67	6,633.76	6,501.68	132.08	50.225		
3,200.00	3,124.81	3,187.46	3,124.81	11.98	125.50	109.54	858.81	6,420.67	6,644.21	6,507.81	136.41	48.709		
3,300.00	3,220.15	3,282.80	3,220.15	12.56	129.31	109.77	858.81	6,420.67	6,654.79	6,514.06	140.73	47.288		
3,400.00	3,315.50	3,378.15	3,315.50	13.14	133.13	110.01	858.81	6,420.67	6,665.48	6,520.43	145.05	45.952		
3,500.00	3,410.85	3,473.50	3,410.85	13.73	136.94	110.24	858.81	6,420.67	6,676.30	6,526.92	149.38	44.694		
3,600.00	3,506.19	3,568.84	3,506.19	14.32	140.75	110.47	858.81	6,420.67	6,687.23	6,533.53	153.70	43.508		
3,700.00	3,601.54	3,664.19	3,601.54	14.91	144.57	110.70	858.81	6,420.67	6,698.28	6,540.26	158.02	42.389		
3,800.00	3,696.89	3,759.54	3,696.89	15.50	148.38	110.93	858.81	6,420.67	6,709.45	6,547.11	162.34	41.330		
3,900.00	3,792.24	3,854.89	3,792.24	16.09	152.20	111.16	858.81	6,420.67	6,720.73	6,554.08	166.66	40.327		
4,000.00	3,887.58	3,950.23	3,887.58	16.68	156.01	111.39	858.81	6,420.67	6,732.14	6,561.16	170.97	39.375		
4,100.00	3,982.93	4,045.58	3,982.93	17.27	159.82	111.62	858.81	6,420.67	6,743.65	6,568.36	175.29	38.472		
4,200.00	4,078.28	4,140.93	4,078.28	17.86	163.64	111.85	858.81	6,420.67	6,755.28	6,575.68	179.60	37.613		
4,300.00	4,173.62	4,236.27	4,173.62	18.45	167.45	112.08	858.81	6,420.67	6,767.03	6,583.12	183.91	36.795		
4,400.00	4,268.97	4,331.62	4,268.97	19.05	171.26	112.31	858.81	6,420.67	6,778.89	6,590.67	188.22	36.016		
4,500.00	4,364.32	4,426.97	4,364.32	19.64	175.08	112.53	858.81	6,420.67	6,790.86	6,598.33	192.53	35.272		
4,600.00	4,459.67	4,522.32	4,459.67	20.23	178.89	112.76	858.81	6,420.67	6,802.95	6,606.11	196.83	34.562		
4,700.00	4,555.01	4,617.66	4,555.01	20.83	182.71	112.98	858.81	6,420.67	6,815.14	6,614.01	201.13	33.884		
4,800.00	4,650.36	4,713.01	4,650.36	21.42	186.52	113.21	858.81	6,420.67	6,827.45	6,622.02	205.43	33.234		
4,900.00	4,745.71	4,808.36	4,745.71	22.02	190.33	113.43	858.81	6,420.67	6,839.87	6,630.14	209.73	32.612		
5,000.00	4,841.05	4,903.70	4,841.05	22.61	194.15	113.65	858.81	6,420.67	6,852.40	6,638.37	214.03	32.016		
5,100.00	4,936.40	4,999.05	4,936.40	23.21	197.96	113.87	858.81	6,420.67	6,865.04	6,646.72	218.32	31.445		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 322M - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,031.75	5,094.40	5,031.75	23.80	201.78	114.09	858.81	6,420.67	6,877.78	6,655.17	222.61	30.896		
5,300.00	5,127.09	5,189.74	5,127.09	24.40	205.59	114.31	858.81	6,420.67	6,890.64	6,663.74	226.90	30.369		
5,400.00	5,222.44	5,285.09	5,222.44	25.00	209.40	114.53	858.81	6,420.67	6,903.60	6,672.42	231.19	29.862		
5,500.00	5,317.79	5,380.44	5,317.79	25.59	213.22	114.75	858.81	6,420.67	6,916.67	6,681.20	235.47	29.374		
5,600.00	5,413.14	5,475.79	5,413.14	26.19	217.03	114.97	858.81	6,420.67	6,929.85	6,690.10	239.75	28.904		
5,700.00	5,508.48	5,571.13	5,508.48	26.78	220.85	115.19	858.81	6,420.67	6,943.14	6,699.10	244.04	28.451		
5,800.00	5,604.35	5,667.00	5,604.35	27.24	224.68	115.62	858.81	6,420.67	6,955.76	6,707.20	248.55	27.985		
5,900.00	5,701.15	5,763.80	5,701.15	27.65	228.55	116.01	858.81	6,420.67	6,966.96	6,713.89	253.07	27.530		
6,000.00	5,798.77	5,861.42	5,798.77	28.02	232.46	116.34	858.81	6,420.67	6,976.71	6,719.15	257.57	27.087		
6,100.00	5,897.08	5,959.73	5,897.08	28.35	236.39	116.62	858.81	6,420.67	6,984.96	6,722.93	262.03	26.657		
6,200.00	5,995.98	6,058.63	5,995.98	28.63	240.35	116.85	858.81	6,420.67	6,991.69	6,725.24	266.44	26.241		
6,300.00	6,095.33	6,157.98	6,095.33	28.87	244.32	117.02	858.81	6,420.67	6,996.86	6,726.06	270.80	25.838		
6,400.00	6,195.01	6,257.66	6,195.01	29.06	248.31	117.14	858.81	6,420.67	7,000.45	6,725.38	275.08	25.449		
6,500.00	6,294.91	6,357.56	6,294.91	29.20	252.30	117.21	858.81	6,420.67	7,002.46	6,723.19	279.27	25.074		
6,600.00	6,394.89	6,457.54	6,394.89	29.30	256.30	3.75	858.81	6,420.67	7,002.52	6,719.33	283.18	24.728		
6,700.00	6,494.28	6,556.93	6,494.28	29.34	260.28	3.81	858.81	6,420.67	6,992.22	6,709.25	282.97	24.710		
6,800.00	6,591.26	6,653.91	6,591.26	29.31	264.16	3.96	858.81	6,420.67	6,968.22	6,691.24	276.98	25.158		
6,900.00	6,683.95	6,746.60	6,683.95	29.23	267.86	4.21	858.81	6,420.67	6,930.99	6,665.84	265.15	26.140		
7,000.00	6,770.55	6,833.20	6,770.55	29.09	271.33	4.60	858.81	6,420.67	6,881.25	6,633.67	247.58	27.794		
7,100.00	6,849.36	6,912.01	6,849.36	28.92	274.48	5.17	858.81	6,420.67	6,819.97	6,595.37	224.61	30.364		
7,200.00	6,918.86	6,981.51	6,918.86	28.73	277.26	6.03	858.81	6,420.67	6,748.35	6,551.51	196.84	34.283		
7,300.00	6,977.70	7,040.35	6,977.70	28.54	279.61	7.39	858.81	6,420.67	6,667.78	6,502.30	165.48	40.295		
7,400.00	7,027.98	7,090.63	7,027.98	28.35	281.63	8.22	858.81	6,420.67	6,581.55	6,428.27	153.29	42.936		
7,500.00	7,070.01	7,132.66	7,070.01	28.19	283.31	11.23	858.81	6,420.67	6,491.13	6,368.07	123.06	52.748		
7,600.00	7,099.01	7,161.66	7,099.01	28.06	284.47	17.87	858.81	6,420.67	6,395.75	6,281.89	113.86	56.175		
7,700.00	7,114.42	7,177.07	7,114.42	27.97	285.08	40.65	858.81	6,420.67	6,297.28	6,096.79	200.50	31.409		
7,800.00	7,117.13	7,179.78	7,117.13	28.00	285.19	87.60	858.81	6,420.67	6,197.63	5,885.35	312.28	19.846		
7,900.00	7,117.44	7,180.09	7,117.44	28.26	285.20	87.64	858.81	6,420.67	6,097.91	5,783.56	314.34	19.399		
8,000.00	7,117.75	7,180.40	7,117.75	28.94	285.22	87.68	858.81	6,420.67	5,998.19	5,681.63	316.56	18.948		
8,100.00	7,118.06	7,180.71	7,118.06	30.16	285.23	87.72	858.81	6,420.67	5,898.49	5,579.57	318.92	18.495		
8,200.00	7,118.37	7,181.02	7,118.37	31.76	285.24	87.76	858.81	6,420.67	5,798.80	5,477.41	321.39	18.043		
8,300.00	7,118.68	7,181.33	7,118.68	33.58	285.25	87.80	858.81	6,420.67	5,699.12	5,375.18	323.94	17.593		
8,400.00	7,118.99	7,181.64	7,118.99	35.53	285.27	87.84	858.81	6,420.67	5,599.45	5,272.88	326.57	17.146		
8,500.00	7,119.30	7,181.95	7,119.30	37.56	285.28	87.88	858.81	6,420.67	5,499.79	5,170.53	329.26	16.703		
8,600.00	7,119.61	7,182.26	7,119.61	39.66	285.29	87.91	858.81	6,420.67	5,400.14	5,068.14	332.01	16.265		
8,700.00	7,119.92	7,182.57	7,119.92	41.80	285.30	87.95	858.81	6,420.67	5,300.51	4,965.72	334.79	15.832		
8,800.00	7,120.23	7,182.88	7,120.23	43.99	285.32	87.99	858.81	6,420.67	5,200.89	4,863.28	337.61	15.405		
8,900.00	7,120.54	7,183.19	7,120.54	46.22	285.33	88.03	858.81	6,420.67	5,101.29	4,760.82	340.47	14.983		
9,000.00	7,120.85	7,183.50	7,120.85	48.47	285.34	88.07	858.81	6,420.67	5,001.70	4,658.35	343.35	14.567		
9,100.00	7,121.16	7,183.81	7,121.16	50.75	285.35	88.11	858.81	6,420.67	4,902.13	4,555.88	346.25	14.158		
9,200.00	7,121.47	7,184.12	7,121.47	53.05	285.36	88.15	858.81	6,420.67	4,802.58	4,453.40	349.18	13.754		
9,300.00	7,121.78	7,184.43	7,121.78	55.37	285.38	88.19	858.81	6,420.67	4,703.05	4,350.93	352.12	13.356		
9,400.00	7,122.09	7,184.74	7,122.09	57.71	285.39	88.22	858.81	6,420.67	4,603.53	4,248.46	355.07	12.965		
9,500.00	7,122.40	7,185.05	7,122.40	60.06	285.40	88.26	858.81	6,420.67	4,504.04	4,146.00	358.04	12.580		
9,600.00	7,122.71	7,185.36	7,122.71	62.43	285.41	88.30	858.81	6,420.67	4,404.57	4,043.55	361.02	12.200		
9,700.00	7,123.02	7,185.67	7,123.02	64.80	285.43	88.34	858.81	6,420.67	4,305.13	3,941.11	364.02	11.827		
9,800.00	7,123.33	7,185.98	7,123.33	67.19	285.44	88.38	858.81	6,420.67	4,205.71	3,838.69	367.02	11.459		
9,900.00	7,123.65	7,186.30	7,123.65	69.59	285.45	88.42	858.81	6,420.67	4,106.32	3,736.29	370.03	11.097		
10,000.00	7,123.96	7,186.61	7,123.96	71.99	285.46	88.46	858.81	6,420.67	4,006.96	3,633.92	373.04	10.741		
10,100.00	7,124.27	7,186.92	7,124.27	74.40	285.48	88.50	858.81	6,420.67	3,907.63	3,531.57	376.07	10.391		
10,200.00	7,124.58	7,187.23	7,124.58	76.82	285.49	88.53	858.81	6,420.67	3,808.34	3,429.25	379.09	10.046		
10,300.00	7,124.89	7,187.54	7,124.89	79.25	285.50	88.57	858.81	6,420.67	3,709.09	3,326.96	382.13	9.706		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 322M - OH - OH													Offset Site Error:
Survey Program: 100-UNKNOWN													Offset Well Error:
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,125.20	7,187.85	7,125.20	81.68	285.51	88.61	858.81	6,420.67	3,609.87	3,224.71	385.17	9.372	
10,500.00	7,125.51	7,188.16	7,125.51	84.12	285.53	88.65	858.81	6,420.67	3,510.71	3,122.49	388.21	9.043	
10,600.00	7,125.82	7,188.47	7,125.82	86.56	285.54	88.69	858.81	6,420.67	3,411.59	3,020.33	391.26	8.719	
10,700.00	7,126.13	7,188.78	7,126.13	89.01	285.55	88.73	858.81	6,420.67	3,312.52	2,918.21	394.31	8.401	
10,800.00	7,126.44	7,189.09	7,126.44	91.46	285.56	88.77	858.81	6,420.67	3,213.51	2,816.14	397.37	8.087	
10,900.00	7,126.75	7,189.40	7,126.75	93.91	285.58	88.81	858.81	6,420.67	3,114.57	2,714.14	400.43	7.778	
11,000.00	7,127.06	7,189.71	7,127.06	96.37	285.59	88.84	858.81	6,420.67	3,015.69	2,612.20	403.49	7.474	
11,100.00	7,127.37	7,190.02	7,127.37	98.83	285.60	88.88	858.81	6,420.67	2,916.89	2,510.34	406.55	7.175	
11,200.00	7,127.68	7,190.33	7,127.68	101.30	285.61	88.92	858.81	6,420.67	2,818.18	2,408.56	409.62	6.880	
11,300.00	7,127.99	7,190.64	7,127.99	103.77	285.63	88.96	858.81	6,420.67	2,719.56	2,306.87	412.69	6.590	
11,400.00	7,128.30	7,190.95	7,128.30	106.24	285.64	89.00	858.81	6,420.67	2,621.04	2,205.28	415.76	6.304	
11,500.00	7,128.61	7,191.26	7,128.61	108.71	285.65	89.04	858.81	6,420.67	2,522.64	2,103.81	418.83	6.023	
11,600.00	7,128.92	7,191.57	7,128.92	111.19	285.66	89.08	858.81	6,420.67	2,424.37	2,002.47	421.91	5.746	
11,700.00	7,129.23	7,191.88	7,129.23	113.66	285.68	89.12	858.81	6,420.67	2,326.25	1,901.27	424.98	5.474	
11,800.00	7,129.54	7,192.19	7,129.54	116.14	285.69	89.15	858.81	6,420.67	2,228.30	1,800.24	428.06	5.206	
11,900.00	7,129.85	7,192.50	7,129.85	118.62	285.70	89.19	858.81	6,420.67	2,130.53	1,699.39	431.14	4.942	
12,000.00	7,130.16	7,192.81	7,130.16	121.11	285.71	89.23	858.81	6,420.67	2,032.99	1,598.77	434.22	4.682	
12,100.00	7,130.47	7,193.12	7,130.47	123.59	285.72	89.27	858.81	6,420.67	1,935.69	1,498.39	437.30	4.426	
12,200.00	7,130.78	7,193.43	7,130.78	126.08	285.74	89.31	858.81	6,420.67	1,838.69	1,398.30	440.39	4.175	
12,300.00	7,131.09	7,193.74	7,131.09	128.57	285.75	89.35	858.81	6,420.67	1,742.02	1,298.55	443.47	3.928	
12,400.00	7,131.40	7,194.05	7,131.40	131.06	285.76	89.39	858.81	6,420.67	1,645.75	1,199.20	446.55	3.685	
12,500.00	7,131.71	7,194.36	7,131.71	133.55	285.77	89.43	858.81	6,420.67	1,549.95	1,100.31	449.64	3.447	
12,600.00	7,132.02	7,194.67	7,132.02	136.04	285.79	89.46	858.81	6,420.67	1,454.72	1,002.00	452.73	3.213	
12,700.00	7,132.33	7,194.98	7,132.33	138.54	285.80	89.50	858.81	6,420.67	1,360.18	904.36	455.82	2.984	
12,800.00	7,132.64	7,195.29	7,132.64	141.03	285.81	89.54	858.81	6,420.67	1,266.47	807.57	458.90	2.760	
12,900.00	7,132.95	7,195.60	7,132.95	143.53	285.82	89.58	858.81	6,420.67	1,173.80	711.81	461.99	2.541	
13,000.00	7,133.26	7,195.91	7,133.26	146.02	285.84	89.62	858.81	6,420.67	1,082.44	617.36	465.08	2.327	
13,100.00	7,133.57	7,196.22	7,133.57	148.52	285.85	89.66	858.81	6,420.67	992.74	524.57	468.17	2.120	
13,200.00	7,133.88	7,196.53	7,133.88	151.02	285.86	89.70	858.81	6,420.67	905.21	433.94	471.26	1.921	
13,300.00	7,134.19	7,196.84	7,134.19	153.52	285.87	89.74	858.81	6,420.67	820.52	346.17	474.36	1.730	
13,400.00	7,134.50	7,197.15	7,134.50	156.02	285.89	89.77	858.81	6,420.67	739.68	262.23	477.45	1.549	
13,500.00	7,134.81	7,197.46	7,134.81	158.52	285.90	89.81	858.81	6,420.67	664.06	183.52	480.54	1.382 Monitor	
13,600.00	7,135.12	7,197.77	7,135.12	161.03	285.91	89.85	858.81	6,420.67	595.69	112.05	483.63	1.232 Shut In Offsets	
13,700.00	7,135.43	7,198.08	7,135.43	163.53	285.92	89.89	858.81	6,420.67	537.31	50.58	486.73	1.104 Shut In Offsets	
13,800.00	7,135.74	7,198.39	7,135.74	166.03	285.94	89.93	858.81	6,420.67	492.51	2.69	489.82	1.005 Shut In Offsets	
13,900.00	7,136.05	7,198.70	7,136.05	168.54	285.95	89.97	858.81	6,420.67	465.21	-27.70	492.91	0.944 Stop Drilling	
13,980.70	7,136.30	7,198.95	7,136.30	170.56	285.96	90.00	858.81	6,420.67	458.16	-37.36	495.52	0.925 Stop Drilling, CC	
14,000.00	7,136.36	7,199.01	7,136.36	171.04	285.96	90.01	858.81	6,420.67	458.57	-37.44	496.01	0.925 Stop Drilling, ES, SF	
14,100.00	7,136.67	7,199.32	7,136.67	173.55	285.97	90.05	858.81	6,420.67	473.44	-25.66	499.10	0.949 Stop Drilling	
14,200.00	7,136.98	7,199.63	7,136.98	176.05	285.99	90.09	858.81	6,420.67	507.94	5.74	502.20	1.011 Shut In Offsets	
14,300.00	7,137.29	7,199.94	7,137.29	178.56	286.00	90.12	858.81	6,420.67	558.45	53.15	505.29	1.105 Shut In Offsets	
14,400.00	7,137.60	7,200.25	7,137.60	181.07	286.01	90.16	858.81	6,420.67	621.07	112.68	508.39	1.222 Shut In Offsets	
14,500.00	7,137.91	7,200.56	7,137.91	183.58	286.02	90.20	858.81	6,420.67	692.52	181.04	511.48	1.354 Monitor	
14,600.00	7,138.22	7,200.87	7,138.22	186.09	286.03	90.24	858.81	6,420.67	770.35	255.77	514.58	1.497 Monitor	
14,700.00	7,138.53	7,201.18	7,138.53	188.59	286.05	90.28	858.81	6,420.67	852.82	335.14	517.68	1.647	
14,800.00	7,138.84	7,201.49	7,138.84	191.10	286.06	90.32	858.81	6,420.67	938.70	417.93	520.77	1.803	
14,900.00	7,139.15	7,201.80	7,139.15	193.61	286.07	90.36	858.81	6,420.67	1,027.14	503.27	523.87	1.961	
15,000.00	7,139.46	7,202.11	7,139.46	196.13	286.08	90.40	858.81	6,420.67	1,117.53	590.57	526.96	2.121	
15,100.00	7,139.77	7,202.42	7,139.77	198.64	286.10	90.43	858.81	6,420.67	1,209.44	679.38	530.06	2.282	
15,200.00	7,140.08	7,202.73	7,140.08	201.15	286.11	90.47	858.81	6,420.67	1,302.53	769.38	533.16	2.443	
15,300.00	7,140.39	7,203.04	7,140.39	203.66	286.12	90.51	858.81	6,420.67	1,396.59	860.33	536.25	2.604	
15,400.00	7,140.70	7,203.35	7,140.70	206.17	286.13	90.55	858.81	6,420.67	1,491.41	952.06	539.35	2.765	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 322M - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	7,141.01	7,203.66	7,141.01	208.68	286.15	90.59	858.81	6,420.67	1,586.87	1,044.43	542.44	2.925	
15,600.00	7,141.32	7,203.97	7,141.32	211.20	286.16	90.63	858.81	6,420.67	1,682.86	1,137.32	545.54	3.085	
15,700.00	7,141.63	7,204.28	7,141.63	213.71	286.17	90.67	858.81	6,420.67	1,779.29	1,230.66	548.64	3.243	
15,800.00	7,141.94	7,204.59	7,141.94	216.22	286.18	90.71	858.81	6,420.67	1,876.10	1,324.36	551.73	3.400	
15,900.00	7,142.25	7,204.90	7,142.25	218.74	286.20	90.74	858.81	6,420.67	1,973.22	1,418.39	554.83	3.556	
16,000.00	7,142.56	7,205.21	7,142.56	221.25	286.21	90.78	858.81	6,420.67	2,070.62	1,512.69	557.92	3.711	
16,100.00	7,142.87	7,205.52	7,142.87	223.77	286.22	90.82	858.81	6,420.67	2,168.25	1,607.23	561.02	3.865	
16,200.00	7,143.18	7,205.83	7,143.18	226.28	286.23	90.86	858.81	6,420.67	2,266.09	1,701.97	564.12	4.017	
16,300.00	7,143.49	7,206.14	7,143.49	228.80	286.25	90.90	858.81	6,420.67	2,364.11	1,796.90	567.21	4.168	
16,400.00	7,143.80	7,206.45	7,143.80	231.31	286.26	90.94	858.81	6,420.67	2,462.29	1,891.98	570.31	4.317	
16,500.00	7,144.11	7,206.76	7,144.11	233.83	286.27	90.98	858.81	6,420.67	2,560.61	1,987.21	573.40	4.466	
16,600.00	7,144.42	7,207.07	7,144.42	236.34	286.28	91.02	858.81	6,420.67	2,659.06	2,082.56	576.50	4.612	
16,700.00	7,144.73	7,207.38	7,144.73	238.86	286.30	91.05	858.81	6,420.67	2,757.62	2,178.02	579.59	4.758	
16,800.00	7,145.05	7,207.70	7,145.05	241.37	286.31	91.09	858.81	6,420.67	2,856.27	2,273.58	582.69	4.902	
16,900.00	7,145.36	7,208.01	7,145.36	243.89	286.32	91.13	858.81	6,420.67	2,955.02	2,369.24	585.78	5.045	
17,000.00	7,145.67	7,208.32	7,145.67	246.41	286.33	91.17	858.81	6,420.67	3,053.85	2,464.97	588.88	5.186	
17,100.00	7,145.98	7,208.63	7,145.98	248.93	286.35	91.21	858.81	6,420.67	3,152.75	2,560.78	591.97	5.326	
17,200.00	7,146.29	7,208.94	7,146.29	251.44	286.36	91.25	858.81	6,420.67	3,251.72	2,656.66	595.07	5.464	
17,300.00	7,146.60	7,209.25	7,146.60	253.96	286.37	91.29	858.81	6,420.67	3,350.76	2,752.59	598.16	5.602	
17,400.00	7,146.91	7,209.56	7,146.91	256.48	286.38	91.33	858.81	6,420.67	3,449.84	2,848.59	601.26	5.738	
17,430.36	7,147.00	7,209.65	7,147.00	257.24	286.39	91.34	858.81	6,420.67	3,479.94	2,877.74	602.20	5.779	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 33 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	12.66	0.00	0.00	0.25	18.89	2,877.55	984.58	3,041.33					
100.00	100.00	112.66	100.00	0.08	2.51	18.89	2,877.55	984.58	3,041.33	3,038.74	2.59	1,173.947		
200.00	200.00	212.66	200.00	0.31	6.51	18.89	2,877.55	984.58	3,041.33	3,034.52	6.82	446.240		
300.00	300.00	312.66	300.00	0.53	10.51	18.89	2,877.55	984.58	3,041.33	3,030.29	11.04	275.477		
400.00	400.00	412.66	400.00	0.76	14.51	18.89	2,877.55	984.58	3,041.33	3,026.07	15.26	199.236		
500.00	500.00	512.66	500.00	0.98	18.51	18.89	2,877.55	984.58	3,041.33	3,021.84	19.49	156.048		
600.00	600.00	612.66	600.00	1.21	22.51	18.89	2,877.55	984.58	3,041.33	3,017.62	23.71	128.248		
700.00	700.00	712.66	700.00	1.43	26.51	18.89	2,877.55	984.58	3,041.33	3,013.39	27.94	108.855		
800.00	800.00	812.66	800.00	1.66	30.51	18.89	2,877.55	984.58	3,041.33	3,009.17	32.16	94.557		
900.00	900.00	912.66	900.00	1.88	34.51	18.89	2,877.55	984.58	3,041.33	3,004.94	36.39	83.579		
1,000.00	1,000.00	1,012.66	1,000.00	2.11	38.51	18.89	2,877.55	984.58	3,041.33	3,000.72	40.61	74.885		
1,100.00	1,099.98	1,112.64	1,099.98	2.33	42.51	42.55	2,877.55	984.58	3,040.04	2,995.22	44.82	67.823		
1,200.00	1,199.84	1,212.50	1,199.84	2.56	46.50	42.66	2,877.55	984.58	3,036.19	2,987.19	49.00	61.969		
1,300.00	1,299.45	1,312.11	1,299.45	2.79	50.48	42.86	2,877.55	984.58	3,029.78	2,976.66	53.12	57.035		
1,400.00	1,398.70	1,411.36	1,398.70	3.03	54.45	43.14	2,877.55	984.58	3,020.84	2,963.64	57.20	52.815		
1,500.00	1,497.47	1,510.13	1,497.47	3.30	58.41	43.50	2,877.55	984.58	3,009.39	2,948.18	61.21	49.162		
1,600.00	1,595.62	1,608.28	1,595.62	3.61	62.33	43.95	2,877.55	984.58	2,995.48	2,930.31	65.17	45.962		
1,700.00	1,693.06	1,705.72	1,693.06	3.95	66.23	44.48	2,877.55	984.58	2,979.15	2,910.08	69.07	43.131		
1,800.00	1,789.64	1,802.30	1,789.64	4.35	70.09	45.09	2,877.55	984.58	2,960.47	2,887.55	72.92	40.600		
1,900.00	1,885.30	1,897.96	1,885.30	4.80	73.92	45.72	2,877.55	984.58	2,939.55	2,862.76	76.79	38.279		
2,000.00	1,980.64	1,993.30	1,980.64	5.29	77.73	46.13	2,877.55	984.58	2,918.07	2,837.13	80.94	36.050		
2,100.00	2,075.99	2,088.65	2,075.99	5.80	81.55	46.55	2,877.55	984.58	2,896.74	2,811.63	85.12	34.032		
2,200.00	2,171.34	2,184.00	2,171.34	6.33	85.36	46.98	2,877.55	984.58	2,875.57	2,786.26	89.31	32.198		
2,300.00	2,266.68	2,279.34	2,266.68	6.87	89.17	47.41	2,877.55	984.58	2,854.57	2,761.05	93.52	30.524		
2,400.00	2,362.03	2,374.69	2,362.03	7.41	92.99	47.84	2,877.55	984.58	2,833.72	2,735.98	97.74	28.992		
2,500.00	2,457.38	2,470.04	2,457.38	7.97	96.80	48.29	2,877.55	984.58	2,813.05	2,711.07	101.98	27.585		
2,600.00	2,552.72	2,565.38	2,552.72	8.53	100.62	48.74	2,877.55	984.58	2,792.55	2,686.32	106.23	26.288		
2,700.00	2,648.07	2,660.73	2,648.07	9.10	104.43	49.19	2,877.55	984.58	2,772.22	2,661.73	110.49	25.090		
2,800.00	2,743.42	2,756.08	2,743.42	9.67	108.24	49.66	2,877.55	984.58	2,752.08	2,637.31	114.76	23.981		
2,900.00	2,838.77	2,851.43	2,838.77	10.24	112.06	50.12	2,877.55	984.58	2,732.11	2,613.07	119.05	22.950		
3,000.00	2,934.11	2,946.77	2,934.11	10.82	115.87	50.60	2,877.55	984.58	2,712.34	2,589.00	123.34	21.991		
3,100.00	3,029.46	3,042.12	3,029.46	11.40	119.68	51.08	2,877.55	984.58	2,692.76	2,565.12	127.64	21.096		
3,200.00	3,124.81	3,137.47	3,124.81	11.98	123.50	51.57	2,877.55	984.58	2,673.38	2,541.42	131.96	20.259		
3,300.00	3,220.15	3,232.81	3,220.15	12.56	127.31	52.07	2,877.55	984.58	2,654.19	2,517.91	136.28	19.476		
3,400.00	3,315.50	3,328.16	3,315.50	13.14	131.13	52.57	2,877.55	984.58	2,635.21	2,494.60	140.61	18.741		
3,500.00	3,410.85	3,423.51	3,410.85	13.73	134.94	53.08	2,877.55	984.58	2,616.45	2,471.49	144.96	18.050		
3,600.00	3,506.19	3,518.85	3,506.19	14.32	138.75	53.59	2,877.55	984.58	2,597.89	2,448.58	149.31	17.400		
3,700.00	3,601.54	3,614.20	3,601.54	14.91	142.57	54.11	2,877.55	984.58	2,579.56	2,425.89	153.67	16.787		
3,800.00	3,696.89	3,709.55	3,696.89	15.50	146.38	54.64	2,877.55	984.58	2,561.45	2,403.41	158.04	16.208		
3,900.00	3,792.24	3,804.90	3,792.24	16.09	150.20	55.18	2,877.55	984.58	2,543.56	2,381.15	162.41	15.661		
4,000.00	3,887.58	3,900.24	3,887.58	16.68	154.01	55.72	2,877.55	984.58	2,525.91	2,359.11	166.80	15.143		
4,100.00	3,982.93	3,995.59	3,982.93	17.27	157.82	56.28	2,877.55	984.58	2,508.50	2,337.30	171.20	14.653		
4,200.00	4,078.28	4,090.94	4,078.28	17.86	161.64	56.83	2,877.55	984.58	2,491.33	2,315.73	175.60	14.188		
4,300.00	4,173.62	4,186.28	4,173.62	18.45	165.45	57.40	2,877.55	984.58	2,474.41	2,294.40	180.01	13.746		
4,400.00	4,268.97	4,281.63	4,268.97	19.05	169.27	57.97	2,877.55	984.58	2,457.74	2,273.31	184.43	13.326		
4,500.00	4,364.32	4,376.98	4,364.32	19.64	173.08	58.55	2,877.55	984.58	2,441.34	2,252.47	188.86	12.927		
4,600.00	4,459.67	4,472.33	4,459.67	20.23	176.89	59.14	2,877.55	984.58	2,425.19	2,231.89	193.30	12.546		
4,700.00	4,555.01	4,567.67	4,555.01	20.83	180.71	59.73	2,877.55	984.58	2,409.32	2,211.57	197.74	12.184		
4,800.00	4,650.36	4,663.02	4,650.36	21.42	184.52	60.33	2,877.55	984.58	2,393.72	2,191.52	202.19	11.839		
4,900.00	4,745.71	4,758.37	4,745.71	22.02	188.33	60.94	2,877.55	984.58	2,378.39	2,171.74	206.65	11.509		
5,000.00	4,841.05	4,853.71	4,841.05	22.61	192.15	61.56	2,877.55	984.58	2,363.36	2,152.24	211.12	11.194		
5,100.00	4,936.40	4,949.06	4,936.40	23.21	195.96	62.18	2,877.55	984.58	2,348.61	2,133.02	215.59	10.894		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 33 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,031.75	5,044.41	5,031.75	23.80	199.78	62.81	2,877.55	984.58	2,334.16	2,114.09	220.08	10.606		
5,300.00	5,127.09	5,139.75	5,127.09	24.40	203.59	63.45	2,877.55	984.58	2,320.02	2,095.45	224.56	10.331		
5,400.00	5,222.44	5,235.10	5,222.44	25.00	207.40	64.10	2,877.55	984.58	2,306.18	2,077.12	229.06	10.068		
5,500.00	5,317.79	5,330.45	5,317.79	25.59	211.22	64.75	2,877.55	984.58	2,292.65	2,059.10	233.56	9.816		
5,600.00	5,413.14	5,425.80	5,413.14	26.19	215.03	65.41	2,877.55	984.58	2,279.44	2,041.38	238.06	9.575		
5,700.00	5,508.48	5,521.14	5,508.48	26.78	218.85	66.07	2,877.55	984.58	2,266.56	2,023.98	242.57	9.344		
5,800.00	5,604.35	5,617.01	5,604.35	27.24	222.68	66.49	2,877.55	984.58	2,254.71	2,007.46	247.25	9.119		
5,900.00	5,701.15	5,713.81	5,701.15	27.65	226.55	66.87	2,877.55	984.58	2,244.51	1,992.64	251.87	8.911		
6,000.00	5,798.77	5,811.43	5,798.77	28.02	230.46	67.21	2,877.55	984.58	2,235.88	1,979.45	256.43	8.719		
6,100.00	5,897.08	5,885.00	5,872.34	28.35	233.40	67.41	2,877.55	984.58	2,228.89	1,968.96	259.92	8.575		
6,191.06	5,987.12	5,885.00	5,872.34	28.61	233.40	67.36	2,877.55	984.58	2,226.47	1,966.15	260.32	8.553		
6,200.00	5,995.98	5,885.00	5,872.34	28.63	233.40	67.36	2,877.55	984.58	2,226.49	1,966.14	260.36	8.552 SF		
6,300.00	6,095.33	5,885.00	5,872.34	28.87	233.40	67.43	2,877.55	984.58	2,229.93	1,969.21	260.72	8.553		
6,400.00	6,195.01	5,885.00	5,872.34	29.06	233.40	67.60	2,877.55	984.58	2,239.17	1,978.15	261.01	8.579		
6,500.00	6,294.91	5,885.00	5,872.34	29.20	233.40	67.88	2,877.55	984.58	2,254.12	1,992.89	261.23	8.629		
6,600.00	6,394.89	5,885.00	5,872.34	29.30	233.40	-45.02	2,877.55	984.58	2,274.34	2,012.99	261.35	8.702		
6,700.00	6,494.28	5,885.00	5,872.34	29.34	233.40	-44.00	2,877.55	984.58	2,292.24	2,032.64	259.60	8.830		
6,800.00	6,591.26	5,885.00	5,872.34	29.31	233.40	-43.31	2,877.55	984.58	2,304.48	2,049.51	254.96	9.038		
6,900.00	6,683.95	5,885.00	5,872.34	29.23	233.40	-42.96	2,877.55	984.58	2,310.91	2,063.22	247.69	9.330		
7,000.00	6,770.55	5,885.00	5,872.34	29.09	233.40	-42.93	2,877.55	984.58	2,311.45	2,073.15	238.30	9.700		
7,100.00	6,849.36	5,885.00	5,872.34	28.92	233.40	-43.22	2,877.55	984.58	2,306.11	2,078.47	227.64	10.130		
7,200.00	6,918.86	5,885.00	5,872.34	28.73	233.40	-43.84	2,877.55	984.58	2,294.94	2,078.10	216.84	10.583		
7,300.00	6,977.70	5,885.00	5,872.34	28.54	233.40	-44.80	2,877.55	984.58	2,278.07	2,070.79	207.28	10.990		
7,400.00	7,027.98	5,885.00	5,872.34	28.35	233.40	-45.26	2,877.55	984.58	2,258.26	2,054.10	204.16	11.061		
7,500.00	7,070.01	5,885.00	5,872.34	28.19	233.40	-46.55	2,877.55	984.58	2,236.33	2,037.80	198.53	11.264		
7,600.00	7,099.01	5,885.00	5,872.34	28.06	233.40	-48.20	2,877.55	984.58	2,209.30	2,012.15	197.15	11.206		
7,700.00	7,114.42	5,885.00	5,872.34	27.97	233.40	-50.23	2,877.55	984.58	2,177.52	1,977.12	200.40	10.866		
7,800.00	7,117.13	5,885.00	5,872.34	28.00	233.40	-51.61	2,877.55	984.58	2,142.09	1,937.34	204.75	10.462		
7,900.00	7,117.44	5,885.00	5,872.34	28.26	233.40	-51.61	2,877.55	984.58	2,109.36	1,903.39	205.97	10.241		
8,000.00	7,117.75	5,885.00	5,872.34	28.94	233.40	-51.61	2,877.55	984.58	2,080.93	1,873.63	207.30	10.038		
8,100.00	7,118.06	5,885.00	5,872.34	30.16	233.40	-51.61	2,877.55	984.58	2,056.97	1,848.25	208.73	9.855		
8,200.00	7,118.37	5,885.00	5,872.34	31.76	233.40	-51.61	2,877.55	984.58	2,037.65	1,827.42	210.23	9.693		
8,300.00	7,118.68	5,885.00	5,872.34	33.58	233.40	-51.61	2,877.55	984.58	2,023.08	1,811.29	211.79	9.552		
8,400.00	7,118.99	5,885.00	5,872.34	35.53	233.40	-51.61	2,877.55	984.58	2,013.39	1,799.97	213.42	9.434		
8,500.00	7,119.30	5,885.00	5,872.34	37.56	233.40	-51.61	2,877.55	984.58	2,008.63	1,793.55	215.08	9.339		
8,545.69	7,119.44	5,885.00	5,872.34	38.51	233.40	-51.61	2,877.55	984.58	2,008.11	1,792.25	215.86	9.303 CC		
8,600.00	7,119.61	5,885.00	5,872.34	39.66	233.40	-51.61	2,877.55	984.58	2,008.84	1,792.05	216.79	9.266 ES		
8,700.00	7,119.92	5,885.00	5,872.34	41.80	233.40	-51.61	2,877.55	984.58	2,014.03	1,795.49	218.54	9.216		
8,800.00	7,120.23	5,885.00	5,872.34	43.99	233.40	-51.61	2,877.55	984.58	2,024.15	1,803.84	220.31	9.188		
8,900.00	7,120.54	5,885.00	5,872.34	46.22	233.40	-51.61	2,877.55	984.58	2,039.13	1,817.02	222.11	9.181		
9,000.00	7,120.85	5,885.00	5,872.34	48.47	233.40	-51.61	2,877.55	984.58	2,058.86	1,834.93	223.93	9.194		
9,100.00	7,121.16	5,885.00	5,872.34	50.75	233.40	-51.61	2,877.55	984.58	2,083.21	1,857.44	225.77	9.227		
9,200.00	7,121.47	5,885.00	5,872.34	53.05	233.40	-51.61	2,877.55	984.58	2,112.02	1,884.39	227.63	9.278		
9,300.00	7,121.78	5,885.00	5,872.34	55.37	233.40	-51.61	2,877.55	984.58	2,145.11	1,915.61	229.50	9.347		
9,400.00	7,122.09	5,885.00	5,872.34	57.71	233.40	-51.61	2,877.55	984.58	2,182.28	1,950.90	231.39	9.431		
9,500.00	7,122.40	5,885.00	5,872.34	60.06	233.40	-51.61	2,877.55	984.58	2,223.34	1,990.05	233.28	9.531		
9,600.00	7,122.71	5,885.00	5,872.34	62.43	233.40	-51.61	2,877.55	984.58	2,268.06	2,032.87	235.19	9.643		
9,700.00	7,123.02	5,885.00	5,872.34	64.80	233.40	-51.61	2,877.55	984.58	2,316.23	2,079.13	237.11	9.769		
9,800.00	7,123.33	5,885.00	5,872.34	67.19	233.40	-51.61	2,877.55	984.58	2,367.66	2,128.62	239.03	9.905		
9,900.00	7,123.65	5,885.00	5,872.34	69.59	233.40	-51.61	2,877.55	984.58	2,422.12	2,181.15	240.97	10.052		
10,000.00	7,123.96	5,885.00	5,872.34	71.99	233.40	-51.61	2,877.55	984.58	2,479.42	2,236.51	242.91	10.207		
10,100.00	7,124.27	5,885.00	5,872.34	74.40	233.40	-51.61	2,877.55	984.58	2,539.37	2,294.52	244.85	10.371		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 33 - OH - OH													Offset Site Error:
Survey Program: 100-UNKNOWN													0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	7,124.58	5,885.00	5,872.34	76.82	233.40	-51.61	2,877.55	984.58	2,601.78	2,354.97	246.80	10.542	
10,300.00	7,124.89	5,885.00	5,872.34	79.25	233.40	-51.61	2,877.55	984.58	2,666.48	2,417.72	248.76	10.719	
10,400.00	7,125.20	5,885.00	5,872.34	81.68	233.40	-51.61	2,877.55	984.58	2,733.31	2,482.59	250.72	10.902	
10,500.00	7,125.51	5,885.00	5,872.34	84.12	233.40	-51.61	2,877.55	984.58	2,802.11	2,549.43	252.69	11.089	
10,600.00	7,125.82	5,885.00	5,872.34	86.56	233.40	-51.61	2,877.55	984.58	2,872.75	2,618.09	254.66	11.281	
10,700.00	7,126.13	5,885.00	5,872.34	89.01	233.40	-51.61	2,877.55	984.58	2,945.09	2,688.46	256.63	11.476	
10,800.00	7,126.44	5,885.00	5,872.34	91.46	233.40	-51.61	2,877.55	984.58	3,019.01	2,760.40	258.61	11.674	
10,900.00	7,126.75	5,885.00	5,872.34	93.91	233.40	-51.61	2,877.55	984.58	3,094.40	2,833.81	260.59	11.875	
11,000.00	7,127.06	5,885.00	5,872.34	96.37	233.40	-51.61	2,877.55	984.58	3,171.14	2,908.57	262.57	12.077	
11,100.00	7,127.37	5,885.00	5,872.34	98.83	233.40	-51.61	2,877.55	984.58	3,249.16	2,984.60	264.56	12.282	
11,200.00	7,127.68	5,885.00	5,872.34	101.30	233.40	-51.61	2,877.55	984.58	3,328.35	3,061.80	266.54	12.487	
11,300.00	7,127.99	5,885.00	5,872.34	103.77	233.40	-51.61	2,877.55	984.58	3,408.63	3,140.10	268.53	12.694	
11,400.00	7,128.30	5,885.00	5,872.34	106.24	233.40	-51.61	2,877.55	984.58	3,489.93	3,219.40	270.52	12.901	
11,500.00	7,128.61	5,885.00	5,872.34	108.71	233.40	-51.61	2,877.55	984.58	3,572.18	3,299.66	272.52	13.108	
11,600.00	7,128.92	5,885.00	5,872.34	111.19	233.40	-51.61	2,877.55	984.58	3,655.32	3,380.80	274.51	13.316	
11,700.00	7,129.23	5,885.00	5,872.34	113.66	233.40	-51.61	2,877.55	984.58	3,739.28	3,462.77	276.51	13.523	
11,800.00	7,129.54	5,885.00	5,872.34	116.14	233.40	-51.61	2,877.55	984.58	3,824.01	3,545.50	278.51	13.730	
11,900.00	7,129.85	5,885.00	5,872.34	118.62	233.40	-51.61	2,877.55	984.58	3,909.47	3,628.95	280.51	13.937	
12,000.00	7,130.16	5,885.00	5,872.34	121.11	233.40	-51.61	2,877.55	984.58	3,995.60	3,713.08	282.51	14.143	
12,100.00	7,130.47	5,885.00	5,872.34	123.59	233.40	-51.61	2,877.55	984.58	4,082.36	3,797.84	284.52	14.348	
12,200.00	7,130.78	5,885.00	5,872.34	126.08	233.40	-51.61	2,877.55	984.58	4,169.71	3,883.19	286.52	14.553	
12,300.00	7,131.09	5,885.00	5,872.34	128.57	233.40	-51.61	2,877.55	984.58	4,257.62	3,969.10	288.53	14.756	
12,400.00	7,131.40	5,885.00	5,872.34	131.06	233.40	-51.61	2,877.55	984.58	4,346.06	4,055.52	290.54	14.959	
12,500.00	7,131.71	5,885.00	5,872.34	133.55	233.40	-51.61	2,877.55	984.58	4,434.99	4,142.44	292.54	15.160	
12,600.00	7,132.02	5,885.00	5,872.34	136.04	233.40	-51.61	2,877.55	984.58	4,524.37	4,229.82	294.55	15.360	
12,700.00	7,132.33	5,885.00	5,872.34	138.54	233.40	-51.61	2,877.55	984.58	4,614.20	4,317.63	296.56	15.559	
12,800.00	7,132.64	5,885.00	5,872.34	141.03	233.40	-51.61	2,877.55	984.58	4,704.43	4,405.86	298.57	15.756	
12,900.00	7,132.95	5,885.00	5,872.34	143.53	233.40	-51.61	2,877.55	984.58	4,795.05	4,494.47	300.59	15.952	
13,000.00	7,133.26	5,885.00	5,872.34	146.02	233.40	-51.61	2,877.55	984.58	4,886.04	4,583.44	302.60	16.147	
13,100.00	7,133.57	5,885.00	5,872.34	148.52	233.40	-51.61	2,877.55	984.58	4,977.38	4,672.76	304.61	16.340	
13,200.00	7,133.88	5,885.00	5,872.34	151.02	233.40	-51.61	2,877.55	984.58	5,069.04	4,762.41	306.63	16.532	
13,300.00	7,134.19	5,885.00	5,872.34	153.52	233.40	-51.61	2,877.55	984.58	5,161.01	4,852.37	308.64	16.722	
13,400.00	7,134.50	5,885.00	5,872.34	156.02	233.40	-51.61	2,877.55	984.58	5,253.27	4,942.61	310.66	16.910	
13,500.00	7,134.81	5,885.00	5,872.34	158.52	233.40	-51.61	2,877.55	984.58	5,345.81	5,033.14	312.67	17.097	
13,600.00	7,135.12	5,885.00	5,872.34	161.03	233.40	-51.61	2,877.55	984.58	5,438.62	5,123.93	314.69	17.282	
13,700.00	7,135.43	5,885.00	5,872.34	163.53	233.40	-51.61	2,877.55	984.58	5,531.68	5,214.97	316.71	17.466	
13,800.00	7,135.74	5,885.00	5,872.34	166.03	233.40	-51.61	2,877.55	984.58	5,624.97	5,306.25	318.73	17.648	
13,900.00	7,136.05	5,885.00	5,872.34	168.54	233.40	-51.61	2,877.55	984.58	5,718.49	5,397.75	320.74	17.829	
14,000.00	7,136.36	5,885.00	5,872.34	171.04	233.40	-51.61	2,877.55	984.58	5,812.23	5,489.47	322.76	18.008	
14,100.00	7,136.67	5,885.00	5,872.34	173.55	233.40	-51.61	2,877.55	984.58	5,906.17	5,581.39	324.78	18.185	
14,200.00	7,136.98	5,885.00	5,872.34	176.05	233.40	-51.61	2,877.55	984.58	6,000.31	5,673.51	326.80	18.361	
14,300.00	7,137.29	5,885.00	5,872.34	178.56	233.40	-51.61	2,877.55	984.58	6,094.64	5,765.82	328.82	18.535	
14,400.00	7,137.60	5,885.00	5,872.34	181.07	233.40	-51.61	2,877.55	984.58	6,189.14	5,858.30	330.84	18.707	
14,500.00	7,137.91	5,885.00	5,872.34	183.58	233.40	-51.61	2,877.55	984.58	6,283.82	5,950.95	332.86	18.878	
14,600.00	7,138.22	5,885.00	5,872.34	186.09	233.40	-51.61	2,877.55	984.58	6,378.65	6,043.77	334.89	19.047	
14,700.00	7,138.53	5,885.00	5,872.34	188.59	233.40	-51.61	2,877.55	984.58	6,473.64	6,136.74	336.91	19.215	
14,800.00	7,138.84	5,885.00	5,872.34	191.10	233.40	-51.61	2,877.55	984.58	6,568.78	6,229.85	338.93	19.381	
14,900.00	7,139.15	5,885.00	5,872.34	193.61	233.40	-51.61	2,877.55	984.58	6,664.07	6,323.11	340.95	19.545	
15,000.00	7,139.46	5,885.00	5,872.34	196.13	233.40	-51.61	2,877.55	984.58	6,759.49	6,416.51	342.98	19.708	
15,100.00	7,139.77	5,885.00	5,872.34	198.64	233.40	-51.61	2,877.55	984.58	6,855.04	6,510.04	345.00	19.870	
15,200.00	7,140.08	5,885.00	5,872.34	201.15	233.40	-51.61	2,877.55	984.58	6,950.71	6,603.69	347.02	20.029	
15,300.00	7,140.39	5,885.00	5,872.34	203.66	233.40	-51.61	2,877.55	984.58	7,046.51	6,697.46	349.05	20.188	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 33 - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	7,140.70	5,885.00	5,872.34	206.17	233.40	-51.61	2,877.55	984.58	7,142.42	6,791.34	351.07	20.345		
15,500.00	7,141.01	5,885.00	5,872.34	208.68	233.40	-51.61	2,877.55	984.58	7,238.44	6,885.34	353.10	20.500		
15,600.00	7,141.32	5,885.00	5,872.34	211.20	233.40	-51.61	2,877.55	984.58	7,334.56	6,979.44	355.12	20.654		
15,700.00	7,141.63	5,885.00	5,872.34	213.71	233.40	-51.61	2,877.55	984.58	7,430.79	7,073.65	357.15	20.806		
15,800.00	7,141.94	5,885.00	5,872.34	216.22	233.40	-51.61	2,877.55	984.58	7,527.12	7,167.95	359.17	20.957		
15,900.00	7,142.25	5,885.00	5,872.34	218.74	233.40	-51.61	2,877.55	984.58	7,623.54	7,262.35	361.20	21.106		
16,000.00	7,142.56	5,885.00	5,872.34	221.25	233.40	-51.61	2,877.55	984.58	7,720.06	7,356.83	363.22	21.254		
16,100.00	7,142.87	5,885.00	5,872.34	223.77	233.40	-51.61	2,877.55	984.58	7,816.66	7,451.41	365.25	21.401		
16,200.00	7,143.18	5,885.00	5,872.34	226.28	233.40	-51.61	2,877.55	984.58	7,913.34	7,546.07	367.28	21.546		
16,300.00	7,143.49	5,885.00	5,872.34	228.80	233.40	-51.61	2,877.55	984.58	8,010.11	7,640.81	369.30	21.690		
16,400.00	7,143.80	5,885.00	5,872.34	231.31	233.40	-51.61	2,877.55	984.58	8,106.96	7,735.63	371.33	21.832		
16,500.00	7,144.11	5,885.00	5,872.34	233.83	233.40	-51.61	2,877.55	984.58	8,203.88	7,830.52	373.36	21.973		
16,600.00	7,144.42	5,885.00	5,872.34	236.34	233.40	-51.61	2,877.55	984.58	8,300.87	7,925.49	375.38	22.113		
16,700.00	7,144.73	5,885.00	5,872.34	238.86	233.40	-51.61	2,877.55	984.58	8,397.94	8,020.52	377.41	22.251		
16,800.00	7,145.05	5,885.00	5,872.34	241.37	233.40	-51.61	2,877.55	984.58	8,495.07	8,115.63	379.44	22.389		
16,900.00	7,145.36	5,885.00	5,872.34	243.89	233.40	-51.61	2,877.55	984.58	8,592.27	8,210.80	381.47	22.524		
17,000.00	7,145.67	5,885.00	5,872.34	246.41	233.40	-51.61	2,877.55	984.58	8,689.53	8,306.04	383.49	22.659		
17,100.00	7,145.98	5,885.00	5,872.34	248.93	233.40	-51.61	2,877.55	984.58	8,786.85	8,401.33	385.52	22.792		
17,200.00	7,146.29	5,885.00	5,872.34	251.44	233.40	-51.61	2,877.55	984.58	8,884.24	8,496.69	387.55	22.924		
17,300.00	7,146.60	5,885.00	5,872.34	253.96	233.40	-51.61	2,877.55	984.58	8,981.68	8,592.10	389.58	23.055		
17,400.00	7,146.91	5,885.00	5,872.34	256.48	233.40	-51.61	2,877.55	984.58	9,079.17	8,687.57	391.61	23.184		
17,430.36	7,147.00	5,885.00	5,872.34	257.24	233.40	-51.61	2,877.55	984.58	9,108.78	8,716.56	392.22	23.224		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 400 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	9.63	0.00	0.00	0.19	63.15	2,857.96	5,646.57	6,328.64					
100.00	100.00	109.63	100.00	0.08	2.39	63.15	2,857.96	5,646.57	6,328.64	6,326.17	2.47	2,562.734		
200.00	200.00	209.63	200.00	0.31	6.39	63.15	2,857.96	5,646.57	6,328.64	6,321.95	6.69	945.384		
300.00	300.00	309.63	300.00	0.53	10.39	63.15	2,857.96	5,646.57	6,328.64	6,317.72	10.92	579.598		
400.00	400.00	409.63	400.00	0.76	14.39	63.15	2,857.96	5,646.57	6,328.64	6,313.50	15.14	417.903		
500.00	500.00	509.63	500.00	0.98	18.39	63.15	2,857.96	5,646.57	6,328.64	6,309.27	19.37	326.748		
600.00	600.00	609.63	600.00	1.21	22.39	63.15	2,857.96	5,646.57	6,328.64	6,305.05	23.59	268.239		
700.00	700.00	709.63	700.00	1.43	26.39	63.15	2,857.96	5,646.57	6,328.64	6,300.82	27.82	227.501		
800.00	800.00	809.63	800.00	1.66	30.39	63.15	2,857.96	5,646.57	6,328.64	6,296.60	32.04	197.506		
900.00	900.00	909.63	900.00	1.88	34.39	63.15	2,857.96	5,646.57	6,328.64	6,292.37	36.27	174.498		
1,000.00	1,000.00	1,009.63	1,000.00	2.11	38.39	63.15	2,857.96	5,646.57	6,328.64	6,288.15	40.49	156.292		
1,100.00	1,099.98	1,109.61	1,099.98	2.33	42.38	86.79	2,857.96	5,646.57	6,328.54	6,283.83	44.71	141.532		
1,200.00	1,199.84	1,209.47	1,199.84	2.56	46.38	86.84	2,857.96	5,646.57	6,328.25	6,279.32	48.93	129.326		
1,300.00	1,299.45	1,309.08	1,299.45	2.79	50.36	86.93	2,857.96	5,646.57	6,327.78	6,274.63	53.15	119.060		
1,400.00	1,398.70	1,408.33	1,398.70	3.03	54.33	87.05	2,857.96	5,646.57	6,327.13	6,269.77	57.36	110.299		
1,500.00	1,497.47	1,507.10	1,497.47	3.30	58.28	87.21	2,857.96	5,646.57	6,326.34	6,264.75	61.58	102.727		
1,600.00	1,595.62	1,605.25	1,595.62	3.61	62.21	87.40	2,857.96	5,646.57	6,325.42	6,259.61	65.81	96.111		
1,700.00	1,693.06	1,702.69	1,693.06	3.95	66.11	87.61	2,857.96	5,646.57	6,324.42	6,254.36	70.06	90.274		
1,800.00	1,789.64	1,799.27	1,789.64	4.35	69.97	87.86	2,857.96	5,646.57	6,323.36	6,249.04	74.32	85.085		
1,900.00	1,885.30	1,894.93	1,885.30	4.80	73.80	88.13	2,857.96	5,646.57	6,322.30	6,243.70	78.60	80.440		
2,000.00	1,980.64	1,990.27	1,980.64	5.29	77.61	88.39	2,857.96	5,646.57	6,321.34	6,238.44	82.90	76.252		
2,100.00	2,075.99	2,085.62	2,075.99	5.80	81.42	88.65	2,857.96	5,646.57	6,320.52	6,233.30	87.22	72.463		
2,200.00	2,171.34	2,180.97	2,171.34	6.33	85.24	88.91	2,857.96	5,646.57	6,319.85	6,228.29	91.56	69.021		
2,300.00	2,266.68	2,276.31	2,266.68	6.87	89.05	89.17	2,857.96	5,646.57	6,319.32	6,223.40	95.92	65.883		
2,400.00	2,362.03	2,371.66	2,362.03	7.41	92.87	89.43	2,857.96	5,646.57	6,318.94	6,218.66	100.28	63.014		
2,500.00	2,457.38	2,467.01	2,457.38	7.97	96.68	89.69	2,857.96	5,646.57	6,318.70	6,214.05	104.65	60.381		
2,600.00	2,552.72	2,562.35	2,552.72	8.53	100.49	89.95	2,857.96	5,646.57	6,318.60	6,209.58	109.02	57.957		
2,617.35	2,569.27	2,578.90	2,569.27	8.63	101.16	90.00	2,857.96	5,646.57	6,318.60	6,208.81	109.78	57.556		
2,700.00	2,648.07	2,657.70	2,648.07	9.10	104.31	90.22	2,857.96	5,646.57	6,318.65	6,205.24	113.40	55.719		
2,800.00	2,743.42	2,753.05	2,743.42	9.67	108.12	90.48	2,857.96	5,646.57	6,318.84	6,201.05	117.79	53.647		
2,900.00	2,838.77	2,848.40	2,838.77	10.24	111.94	90.74	2,857.96	5,646.57	6,319.17	6,197.00	122.17	51.724		
3,000.00	2,934.11	2,943.74	2,934.11	10.82	115.75	91.00	2,857.96	5,646.57	6,319.65	6,193.09	126.56	49.934		
3,100.00	3,029.46	3,039.09	3,029.46	11.40	119.56	91.26	2,857.96	5,646.57	6,320.27	6,189.32	130.95	48.264		
3,200.00	3,124.81	3,134.44	3,124.81	11.98	123.38	91.52	2,857.96	5,646.57	6,321.04	6,185.69	135.34	46.704		
3,300.00	3,220.15	3,229.78	3,220.15	12.56	127.19	91.78	2,857.96	5,646.57	6,321.95	6,182.21	139.74	45.242		
3,400.00	3,315.50	3,325.13	3,315.50	13.14	131.01	92.04	2,857.96	5,646.57	6,323.00	6,178.87	144.13	43.870		
3,500.00	3,410.85	3,420.48	3,410.85	13.73	134.82	92.30	2,857.96	5,646.57	6,324.20	6,175.67	148.53	42.580		
3,600.00	3,506.19	3,515.82	3,506.19	14.32	138.63	92.56	2,857.96	5,646.57	6,325.54	6,172.62	152.92	41.364		
3,700.00	3,601.54	3,611.17	3,601.54	14.91	142.45	92.82	2,857.96	5,646.57	6,327.02	6,169.70	157.32	40.218		
3,800.00	3,696.89	3,706.52	3,696.89	15.50	146.26	93.08	2,857.96	5,646.57	6,328.65	6,166.94	161.71	39.135		
3,900.00	3,792.24	3,801.87	3,792.24	16.09	146.60	93.10	2,857.96	5,646.57	6,331.02	6,168.37	162.64	38.926		
4,000.00	3,887.58	3,897.21	3,887.58	16.68	146.60	93.10	2,857.96	5,646.57	6,334.95	6,171.72	163.23	38.810		
4,100.00	3,982.93	3,992.56	3,982.93	17.27	146.60	93.10	2,857.96	5,646.57	6,340.47	6,176.64	163.82	38.703		
4,200.00	4,078.28	4,087.91	4,078.28	17.86	146.60	93.10	2,857.96	5,646.57	6,347.55	6,183.14	164.41	38.607		
4,300.00	4,173.62	4,183.25	4,173.62	18.45	146.60	93.10	2,857.96	5,646.57	6,356.20	6,191.20	165.00	38.521		
4,400.00	4,268.97	4,278.60	4,268.97	19.05	146.60	93.10	2,857.96	5,646.57	6,366.41	6,200.81	165.60	38.445		
4,500.00	4,364.32	4,373.95	4,364.32	19.64	146.60	93.10	2,857.96	5,646.57	6,378.17	6,211.98	166.19	38.379		
4,600.00	4,459.67	4,469.30	4,459.67	20.23	146.60	93.10	2,857.96	5,646.57	6,391.47	6,224.69	166.78	38.322		
4,700.00	4,555.01	4,564.64	4,555.01	20.83	146.60	93.10	2,857.96	5,646.57	6,406.31	6,238.93	167.38	38.275		
4,800.00	4,650.36	4,659.99	4,650.36	21.42	146.60	93.10	2,857.96	5,646.57	6,422.67	6,254.70	167.97	38.237		
4,900.00	4,745.71	4,755.34	4,745.71	22.02	146.60	93.10	2,857.96	5,646.57	6,440.54	6,271.98	168.56	38.208		
5,000.00	4,841.05	4,850.68	4,841.05	22.61	146.60	93.10	2,857.96	5,646.57	6,459.91	6,290.75	169.16	38.189		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 400 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	3,715.00	3,705.37	23.21	146.60	93.10	2,857.96	5,646.57	6,480.77	6,311.01	169.75	38.178		
5,200.00	5,031.75	3,715.00	3,705.37	23.80	146.60	93.10	2,857.96	5,646.57	6,503.09	6,332.75	170.35	38.176		
5,300.00	5,127.09	3,715.00	3,705.37	24.40	146.60	93.10	2,857.96	5,646.57	6,526.88	6,355.93	170.94	38.182		
5,400.00	5,222.44	3,715.00	3,705.37	25.00	146.60	93.10	2,857.96	5,646.57	6,552.10	6,380.56	171.54	38.196		
5,500.00	5,317.79	3,715.00	3,705.37	25.59	146.60	93.10	2,857.96	5,646.57	6,578.74	6,406.61	172.13	38.219		
5,600.00	5,413.14	3,715.00	3,705.37	26.19	146.60	93.10	2,857.96	5,646.57	6,606.80	6,434.07	172.73	38.250		
5,700.00	5,508.48	3,715.00	3,705.37	26.78	146.60	93.11	2,857.96	5,646.57	6,636.24	6,462.91	173.32	38.288		
5,800.00	5,604.35	3,715.00	3,705.37	27.24	146.60	93.76	2,857.96	5,646.57	6,666.95	6,493.19	173.76	38.369		
5,900.00	5,701.15	3,715.00	3,705.37	27.65	146.60	94.43	2,857.96	5,646.57	6,698.80	6,524.64	174.16	38.465		
6,000.00	5,798.77	3,715.00	3,705.37	28.02	146.60	95.12	2,857.96	5,646.57	6,731.72	6,557.22	174.50	38.576		
6,100.00	5,897.08	3,715.00	3,705.37	28.35	146.60	95.84	2,857.96	5,646.57	6,765.68	6,590.87	174.81	38.704		
6,200.00	5,995.98	3,715.00	3,705.37	28.63	146.60	96.58	2,857.96	5,646.57	6,800.60	6,625.54	175.06	38.846		
6,300.00	6,095.33	3,715.00	3,705.37	28.87	146.60	97.34	2,857.96	5,646.57	6,836.44	6,661.17	175.27	39.005		
6,400.00	6,195.01	3,715.00	3,705.37	29.06	146.60	98.12	2,857.96	5,646.57	6,873.13	6,697.70	175.43	39.179		
6,500.00	6,294.91	3,715.00	3,705.37	29.20	146.60	98.92	2,857.96	5,646.57	6,910.62	6,735.08	175.53	39.369		
6,600.00	6,394.89	3,715.00	3,705.37	29.30	146.60	-13.75	2,857.96	5,646.57	6,948.49	6,773.01	175.48	39.596		
6,700.00	6,494.28	3,715.00	3,705.37	29.34	146.60	-13.17	2,857.96	5,646.57	6,978.38	6,805.30	173.08	40.318		
6,800.00	6,591.26	3,715.00	3,705.37	29.31	146.60	-12.84	2,857.96	5,646.57	6,996.44	6,828.95	167.48	41.774		
6,900.00	6,683.95	3,715.00	3,705.37	29.23	146.60	-12.73	2,857.96	5,646.57	7,002.40	6,843.57	158.83	44.087		
7,000.00	6,770.55	3,715.00	3,705.37	29.09	146.60	-12.84	2,857.96	5,646.57	6,996.19	6,848.80	147.39	47.466		
7,100.00	6,849.36	3,715.00	3,705.37	28.92	146.60	-13.18	2,857.96	5,646.57	6,977.89	6,844.34	133.55	52.249		
7,200.00	6,918.86	3,715.00	3,705.37	28.73	146.60	-13.77	2,857.96	5,646.57	6,947.76	6,829.88	117.89	58.936		
7,300.00	6,977.70	3,715.00	3,705.37	28.54	146.60	-14.66	2,857.96	5,646.57	6,906.25	6,804.94	101.30	68.173		
7,400.00	7,027.98	3,715.00	3,705.37	28.35	146.60	-15.13	2,857.96	5,646.57	6,857.00	6,762.22	94.78	72.348		
7,500.00	7,070.01	3,715.00	3,705.37	28.19	146.60	-16.60	2,857.96	5,646.57	6,801.24	6,721.44	79.79	85.238		
7,600.00	7,099.01	3,715.00	3,705.37	28.06	146.60	-18.70	2,857.96	5,646.57	6,735.79	6,665.99	69.80	96.501		
7,700.00	7,114.42	3,715.00	3,705.37	27.97	146.60	-21.76	2,857.96	5,646.57	6,661.66	6,592.10	69.56	95.767		
7,800.00	7,117.13	3,715.00	3,705.37	28.00	146.60	-24.23	2,857.96	5,646.57	6,580.63	6,505.09	75.54	87.116		
7,900.00	7,117.44	3,715.00	3,705.37	28.26	146.60	-24.23	2,857.96	5,646.57	6,498.81	6,422.42	76.39	85.075		
8,000.00	7,117.75	3,715.00	3,705.37	28.94	146.60	-24.23	2,857.96	5,646.57	6,417.51	6,340.22	77.29	83.034		
8,100.00	7,118.06	3,715.00	3,705.37	30.16	146.60	-24.23	2,857.96	5,646.57	6,336.73	6,258.51	78.23	81.005		
8,200.00	7,118.37	3,715.00	3,705.37	31.76	146.60	-24.23	2,857.96	5,646.57	6,256.52	6,177.32	79.20	78.997		
8,300.00	7,118.68	3,715.00	3,705.37	33.58	146.60	-24.23	2,857.96	5,646.57	6,176.88	6,096.68	80.20	77.017		
8,400.00	7,118.99	3,715.00	3,705.37	35.53	146.60	-24.23	2,857.96	5,646.57	6,097.84	6,016.61	81.23	75.070		
8,500.00	7,119.30	3,715.00	3,705.37	37.56	146.60	-24.23	2,857.96	5,646.57	6,019.43	5,937.15	82.28	73.160		
8,600.00	7,119.61	3,715.00	3,705.37	39.66	146.60	-24.23	2,857.96	5,646.57	5,941.66	5,858.31	83.35	71.290		
8,700.00	7,119.92	3,715.00	3,705.37	41.80	146.60	-24.23	2,857.96	5,646.57	5,864.57	5,780.14	84.43	69.461		
8,800.00	7,120.23	3,715.00	3,705.37	43.99	146.60	-24.23	2,857.96	5,646.57	5,788.18	5,702.65	85.53	67.676		
8,900.00	7,120.54	3,715.00	3,705.37	46.22	146.60	-24.23	2,857.96	5,646.57	5,712.51	5,625.88	86.64	65.936		
9,000.00	7,120.85	3,715.00	3,705.37	48.47	146.60	-24.23	2,857.96	5,646.57	5,637.61	5,549.85	87.76	64.240		
9,100.00	7,121.16	3,715.00	3,705.37	50.75	146.60	-24.23	2,857.96	5,646.57	5,563.49	5,474.60	88.89	62.589		
9,200.00	7,121.47	3,715.00	3,705.37	53.05	146.60	-24.23	2,857.96	5,646.57	5,490.20	5,400.17	90.03	60.983		
9,300.00	7,121.78	3,715.00	3,705.37	55.37	146.60	-24.23	2,857.96	5,646.57	5,417.76	5,326.58	91.18	59.421		
9,400.00	7,122.09	3,715.00	3,705.37	57.71	146.60	-24.23	2,857.96	5,646.57	5,346.21	5,253.88	92.33	57.903		
9,500.00	7,122.40	3,715.00	3,705.37	60.06	146.60	-24.23	2,857.96	5,646.57	5,275.58	5,182.09	93.49	56.430		
9,600.00	7,122.71	3,715.00	3,705.37	62.43	146.60	-24.23	2,857.96	5,646.57	5,205.92	5,111.26	94.65	54.999		
9,700.00	7,123.02	3,715.00	3,705.37	64.80	146.60	-24.23	2,857.96	5,646.57	5,137.26	5,041.43	95.82	53.611		
9,800.00	7,123.33	3,715.00	3,705.37	67.19	146.60	-24.23	2,857.96	5,646.57	5,069.64	4,972.64	97.00	52.265		
9,900.00	7,123.65	3,715.00	3,705.37	69.59	146.60	-24.23	2,857.96	5,646.57	5,003.10	4,904.93	98.18	50.959		
10,000.00	7,123.96	3,715.00	3,705.37	71.99	146.60	-24.23	2,857.96	5,646.57	4,937.70	4,838.34	99.36	49.695		
10,100.00	7,124.27	3,715.00	3,705.37	74.40	146.60	-24.23	2,857.96	5,646.57	4,873.47	4,772.92	100.55	48.470		
10,200.00	7,124.58	3,715.00	3,705.37	76.82	146.60	-24.23	2,857.96	5,646.57	4,810.46	4,708.73	101.73	47.284		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 400 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	3,715.00	3,705.37	79.25	146.60	-24.23	2,857.96	5,646.57	4,748.72	4,645.80	102.93	46.137		
10,400.00	7,125.20	3,715.00	3,705.37	81.68	146.60	-24.23	2,857.96	5,646.57	4,688.30	4,584.18	104.12	45.028		
10,500.00	7,125.51	3,715.00	3,705.37	84.12	146.60	-24.23	2,857.96	5,646.57	4,629.26	4,523.94	105.32	43.955		
10,600.00	7,125.82	3,715.00	3,705.37	86.56	146.60	-24.23	2,857.96	5,646.57	4,571.63	4,465.12	106.52	42.920		
10,700.00	7,126.13	3,715.00	3,705.37	89.01	146.60	-24.23	2,857.96	5,646.57	4,515.49	4,407.77	107.72	41.920		
10,800.00	7,126.44	3,715.00	3,705.37	91.46	146.60	-24.23	2,857.96	5,646.57	4,460.88	4,351.96	108.92	40.956		
10,900.00	7,126.75	3,715.00	3,705.37	93.91	146.60	-24.23	2,857.96	5,646.57	4,407.87	4,297.75	110.12	40.027		
11,000.00	7,127.06	3,715.00	3,705.37	96.37	146.60	-24.23	2,857.96	5,646.57	4,356.51	4,245.18	111.33	39.132		
11,100.00	7,127.37	3,715.00	3,705.37	98.83	146.60	-24.23	2,857.96	5,646.57	4,306.85	4,194.31	112.54	38.271		
11,200.00	7,127.68	3,715.00	3,705.37	101.30	146.60	-24.23	2,857.96	5,646.57	4,258.97	4,145.22	113.75	37.443		
11,300.00	7,127.99	3,715.00	3,705.37	103.77	146.60	-24.23	2,857.96	5,646.57	4,212.91	4,097.95	114.96	36.648		
11,400.00	7,128.30	3,715.00	3,705.37	106.24	146.60	-24.23	2,857.96	5,646.57	4,168.75	4,052.58	116.17	35.886		
11,500.00	7,128.61	3,715.00	3,705.37	108.71	146.60	-24.23	2,857.96	5,646.57	4,126.53	4,009.15	117.38	35.155		
11,600.00	7,128.92	3,715.00	3,705.37	111.19	146.60	-24.23	2,857.96	5,646.57	4,086.33	3,967.74	118.59	34.457		
11,700.00	7,129.23	3,715.00	3,705.37	113.66	146.60	-24.23	2,857.96	5,646.57	4,048.20	3,928.39	119.81	33.789		
11,800.00	7,129.54	3,715.00	3,705.37	116.14	146.60	-24.23	2,857.96	5,646.57	4,012.20	3,891.18	121.02	33.152		
11,900.00	7,129.85	3,715.00	3,705.37	118.62	146.60	-24.23	2,857.96	5,646.57	3,978.39	3,856.15	122.24	32.546		
12,000.00	7,130.16	3,715.00	3,705.37	121.11	146.60	-24.23	2,857.96	5,646.57	3,946.82	3,823.36	123.46	31.969		
12,100.00	7,130.47	3,715.00	3,705.37	123.59	146.60	-24.23	2,857.96	5,646.57	3,917.55	3,792.88	124.68	31.422		
12,200.00	7,130.78	3,715.00	3,705.37	126.08	146.60	-24.23	2,857.96	5,646.57	3,890.64	3,764.74	125.89	30.904		
12,300.00	7,131.09	3,715.00	3,705.37	128.57	146.60	-24.23	2,857.96	5,646.57	3,866.12	3,739.00	127.11	30.414		
12,400.00	7,131.40	3,715.00	3,705.37	131.06	146.60	-24.23	2,857.96	5,646.57	3,844.05	3,715.71	128.33	29.953		
12,500.00	7,131.71	3,715.00	3,705.37	133.55	146.60	-24.23	2,857.96	5,646.57	3,824.46	3,694.91	129.56	29.520		
12,600.00	7,132.02	3,715.00	3,705.37	136.04	146.60	-24.23	2,857.96	5,646.57	3,807.41	3,676.63	130.78	29.114		
12,700.00	7,132.33	3,715.00	3,705.37	138.54	146.60	-24.23	2,857.96	5,646.57	3,792.91	3,660.91	132.00	28.734		
12,800.00	7,132.64	3,715.00	3,705.37	141.03	146.60	-24.23	2,857.96	5,646.57	3,781.00	3,647.78	133.22	28.381		
12,900.00	7,132.95	3,715.00	3,705.37	143.53	146.60	-24.23	2,857.96	5,646.57	3,771.71	3,637.27	134.45	28.054		
13,000.00	7,133.26	3,715.00	3,705.37	146.02	146.60	-24.23	2,857.96	5,646.57	3,765.06	3,629.39	135.67	27.752		
13,100.00	7,133.57	3,715.00	3,705.37	148.52	146.60	-24.23	2,857.96	5,646.57	3,761.05	3,624.15	136.89	27.474		
13,200.00	7,133.88	3,715.00	3,705.37	151.02	146.60	-24.23	2,857.96	5,646.57	3,759.69	3,621.58	138.12	27.221		
13,200.87	7,133.88	3,715.00	3,705.37	151.04	146.60	-24.23	2,857.96	5,646.57	3,759.69	3,621.57	138.13	27.219 CC, ES		
13,300.00	7,134.19	3,715.00	3,705.37	153.52	146.60	-24.23	2,857.96	5,646.57	3,761.00	3,621.66	139.34	26.991		
13,400.00	7,134.50	3,715.00	3,705.37	156.02	146.60	-24.23	2,857.96	5,646.57	3,764.96	3,624.40	140.57	26.784		
13,500.00	7,134.81	3,715.00	3,705.37	158.52	146.60	-24.23	2,857.96	5,646.57	3,771.57	3,629.78	141.79	26.599		
13,600.00	7,135.12	3,715.00	3,705.37	161.03	146.60	-24.23	2,857.96	5,646.57	3,780.82	3,637.80	143.02	26.436		
13,700.00	7,135.43	3,715.00	3,705.37	163.53	146.60	-24.23	2,857.96	5,646.57	3,792.68	3,648.43	144.25	26.293		
13,800.00	7,135.74	3,715.00	3,705.37	166.03	146.60	-24.23	2,857.96	5,646.57	3,807.13	3,661.66	145.47	26.171		
13,900.00	7,136.05	3,715.00	3,705.37	168.54	146.60	-24.23	2,857.96	5,646.57	3,824.14	3,677.44	146.70	26.068		
14,000.00	7,136.36	3,715.00	3,705.37	171.04	146.60	-24.23	2,857.96	5,646.57	3,843.68	3,695.76	147.93	25.984		
14,100.00	7,136.67	3,715.00	3,705.37	173.55	146.60	-24.23	2,857.96	5,646.57	3,865.71	3,716.56	149.16	25.917		
14,200.00	7,136.98	3,715.00	3,705.37	176.05	146.60	-24.23	2,857.96	5,646.57	3,890.19	3,739.80	150.38	25.868		
14,300.00	7,137.29	3,715.00	3,705.37	178.56	146.60	-24.23	2,857.96	5,646.57	3,917.06	3,765.45	151.61	25.836		
14,400.00	7,137.60	3,715.00	3,705.37	181.07	146.60	-24.23	2,857.96	5,646.57	3,946.29	3,793.45	152.84	25.820		
14,500.00	7,137.91	3,715.00	3,705.37	183.58	146.60	-24.23	2,857.96	5,646.57	3,977.82	3,823.75	154.07	25.818 SF		
14,600.00	7,138.22	3,715.00	3,705.37	186.09	146.60	-24.23	2,857.96	5,646.57	4,011.59	3,856.29	155.30	25.831		
14,700.00	7,138.53	3,715.00	3,705.37	188.59	146.60	-24.23	2,857.96	5,646.57	4,047.55	3,891.03	156.53	25.858		
14,800.00	7,138.84	3,715.00	3,705.37	191.10	146.60	-24.23	2,857.96	5,646.57	4,085.65	3,927.89	157.76	25.898		
14,900.00	7,139.15	3,715.00	3,705.37	193.61	146.60	-24.23	2,857.96	5,646.57	4,125.81	3,966.83	158.99	25.951		
15,000.00	7,139.46	3,715.00	3,705.37	196.13	146.60	-24.23	2,857.96	5,646.57	4,167.99	4,007.78	160.22	26.015		
15,100.00	7,139.77	3,715.00	3,705.37	198.64	146.60	-24.23	2,857.96	5,646.57	4,212.12	4,050.68	161.45	26.090		
15,200.00	7,140.08	3,715.00	3,705.37	201.15	146.60	-24.23	2,857.96	5,646.57	4,258.15	4,095.47	162.68	26.175		
15,300.00	7,140.39	3,715.00	3,705.37	203.66	146.60	-24.23	2,857.96	5,646.57	4,306.00	4,142.09	163.91	26.271		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 400 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.00	7,140.70	3,715.00	3,705.37	206.17	146.60	-24.23	2,857.96	5,646.57	4,355.62	4,190.49	165.14	26.376	
15,500.00	7,141.01	3,715.00	3,705.37	208.68	146.60	-24.23	2,857.96	5,646.57	4,406.96	4,240.59	166.37	26.489	
15,600.00	7,141.32	3,715.00	3,705.37	211.20	146.60	-24.23	2,857.96	5,646.57	4,459.95	4,292.34	167.60	26.610	
15,700.00	7,141.63	3,715.00	3,705.37	213.71	146.60	-24.23	2,857.96	5,646.57	4,514.53	4,345.69	168.83	26.740	
15,800.00	7,141.94	3,715.00	3,705.37	216.22	146.60	-24.23	2,857.96	5,646.57	4,570.64	4,400.58	170.06	26.876	
15,900.00	7,142.25	3,715.00	3,705.37	218.74	146.60	-24.23	2,857.96	5,646.57	4,628.24	4,456.94	171.30	27.019	
16,000.00	7,142.56	3,715.00	3,705.37	221.25	146.60	-24.23	2,857.96	5,646.57	4,687.26	4,514.73	172.53	27.168	
16,100.00	7,142.87	3,715.00	3,705.37	223.77	146.60	-24.23	2,857.96	5,646.57	4,747.66	4,573.90	173.76	27.323	
16,200.00	7,143.18	3,715.00	3,705.37	226.28	146.60	-24.23	2,857.96	5,646.57	4,809.37	4,634.38	174.99	27.484	
16,300.00	7,143.49	3,715.00	3,705.37	228.80	146.60	-24.23	2,857.96	5,646.57	4,872.36	4,696.14	176.22	27.649	
16,400.00	7,143.80	3,715.00	3,705.37	231.31	146.60	-24.23	2,857.96	5,646.57	4,936.57	4,759.11	177.46	27.819	
16,500.00	7,144.11	3,715.00	3,705.37	233.83	146.60	-24.23	2,857.96	5,646.57	5,001.95	4,823.27	178.69	27.993	
16,600.00	7,144.42	3,715.00	3,705.37	236.34	146.60	-24.23	2,857.96	5,646.57	5,068.47	4,888.55	179.92	28.171	
16,700.00	7,144.73	3,715.00	3,705.37	238.86	146.60	-24.23	2,857.96	5,646.57	5,136.07	4,954.92	181.15	28.352	
16,800.00	7,145.05	3,715.00	3,705.37	241.37	146.60	-24.23	2,857.96	5,646.57	5,204.71	5,022.33	182.39	28.537	
16,900.00	7,145.36	3,715.00	3,705.37	243.89	146.60	-24.23	2,857.96	5,646.57	5,274.36	5,090.74	183.62	28.725	
17,000.00	7,145.67	3,715.00	3,705.37	246.41	146.60	-24.23	2,857.96	5,646.57	5,344.97	5,160.12	184.85	28.915	
17,100.00	7,145.98	3,715.00	3,705.37	248.93	146.60	-24.23	2,857.96	5,646.57	5,416.50	5,230.42	186.08	29.108	
17,200.00	7,146.29	3,715.00	3,705.37	251.44	146.60	-24.23	2,857.96	5,646.57	5,488.93	5,301.61	187.32	29.303	
17,300.00	7,146.60	3,715.00	3,705.37	253.96	146.60	-24.23	2,857.96	5,646.57	5,562.21	5,373.66	188.55	29.500	
17,400.00	7,146.91	3,715.00	3,705.37	256.48	146.60	-24.23	2,857.96	5,646.57	5,636.31	5,446.52	189.78	29.699	
17,430.36	7,147.00	3,715.00	3,705.37	257.24	146.60	-24.23	2,857.96	5,646.57	5,658.96	5,468.81	190.16	29.759	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	96.42	0.00	0.00	85.23	719.12	8,616.40	8,646.89					
100.00	100.00	3.58	100.00	0.08	0.07	85.23	719.12	8,616.40	8,646.36	8,646.20	0.16	N/A		
200.00	200.00	103.58	200.00	0.31	2.14	85.23	719.12	8,616.40	8,646.36	8,643.90	2.45	3,525.882		
300.00	300.00	203.58	300.00	0.53	6.14	85.23	719.12	8,616.40	8,646.36	8,639.68	6.68	1,294.942		
400.00	400.00	303.58	400.00	0.76	10.14	85.23	719.12	8,616.40	8,646.36	8,635.46	10.90	793.114		
500.00	500.00	403.58	500.00	0.98	14.14	85.23	719.12	8,616.40	8,646.36	8,631.23	15.13	571.601		
600.00	600.00	503.58	600.00	1.21	18.14	85.23	719.12	8,616.40	8,646.36	8,627.01	19.35	446.810		
700.00	700.00	603.58	700.00	1.43	22.14	85.23	719.12	8,616.40	8,646.36	8,622.78	23.58	366.743		
800.00	800.00	703.58	800.00	1.66	26.14	85.23	719.12	8,616.40	8,646.36	8,618.56	27.80	311.011		
900.00	900.00	803.58	900.00	1.88	30.14	85.23	719.12	8,616.40	8,646.36	8,614.33	32.03	269.983		
1,000.00	1,000.00	903.58	1,000.00	2.11	34.14	85.23	719.12	8,616.40	8,646.36	8,610.11	36.25	238.518		
1,100.00	1,099.98	1,003.56	1,099.98	2.33	38.14	108.85	719.12	8,616.40	8,646.92	8,606.45	40.47	213.662		
1,200.00	1,199.84	1,103.42	1,199.84	2.56	42.14	108.85	719.12	8,616.40	8,648.61	8,603.93	44.68	193.572		
1,300.00	1,299.45	1,203.03	1,299.45	2.79	46.12	108.85	719.12	8,616.40	8,651.44	8,602.56	48.88	177.004		
1,400.00	1,398.70	1,302.28	1,398.70	3.03	50.09	108.85	719.12	8,616.40	8,655.40	8,602.34	53.06	163.109		
1,500.00	1,497.47	1,401.05	1,497.47	3.30	54.04	108.85	719.12	8,616.40	8,660.51	8,603.27	57.25	151.288		
1,600.00	1,595.62	1,499.20	1,595.62	3.61	57.97	108.85	719.12	8,616.40	8,666.78	8,605.36	61.42	141.107		
1,700.00	1,693.06	1,596.64	1,693.06	3.95	61.87	108.84	719.12	8,616.40	8,674.22	8,608.63	65.59	132.246		
1,800.00	1,789.64	1,693.22	1,789.64	4.35	65.73	108.84	719.12	8,616.40	8,682.84	8,613.08	69.76	124.463		
1,900.00	1,885.30	1,788.88	1,885.30	4.80	69.56	108.87	719.12	8,616.40	8,692.63	8,618.69	73.95	117.551		
2,000.00	1,980.64	1,884.22	1,980.64	5.29	73.37	109.05	719.12	8,616.40	8,702.85	8,624.65	78.20	111.289		
2,100.00	2,075.99	1,979.57	2,075.99	5.80	77.18	109.23	719.12	8,616.40	8,713.17	8,630.69	82.47	105.650		
2,200.00	2,171.34	2,074.92	2,171.34	6.33	81.00	109.41	719.12	8,616.40	8,723.57	8,636.81	86.76	100.552		
2,300.00	2,266.68	2,170.26	2,266.68	6.87	84.81	109.59	719.12	8,616.40	8,734.07	8,643.01	91.05	95.923		
2,400.00	2,362.03	2,265.61	2,362.03	7.41	88.62	109.77	719.12	8,616.40	8,744.65	8,649.30	95.36	91.705		
2,500.00	2,457.38	2,360.96	2,457.38	7.97	92.44	109.94	719.12	8,616.40	8,755.33	8,655.67	99.67	87.847		
2,600.00	2,552.72	2,456.30	2,552.72	8.53	96.25	110.12	719.12	8,616.40	8,766.10	8,662.12	103.98	84.306		
2,700.00	2,648.07	2,551.65	2,648.07	9.10	100.07	110.30	719.12	8,616.40	8,776.96	8,668.66	108.30	81.046		
2,800.00	2,743.42	2,647.00	2,743.42	9.67	103.88	110.48	719.12	8,616.40	8,787.91	8,675.29	112.62	78.035		
2,900.00	2,838.77	2,742.35	2,838.77	10.24	107.69	110.65	719.12	8,616.40	8,798.95	8,682.01	116.94	75.246		
3,000.00	2,934.11	2,837.69	2,934.11	10.82	111.51	110.83	719.12	8,616.40	8,810.07	8,688.82	121.26	72.656		
3,100.00	3,029.46	2,933.04	3,029.46	11.40	115.32	111.00	719.12	8,616.40	8,821.29	8,695.71	125.58	70.244		
3,200.00	3,124.81	3,028.39	3,124.81	11.98	119.14	111.18	719.12	8,616.40	8,832.60	8,702.69	129.90	67.993		
3,300.00	3,220.15	3,123.73	3,220.15	12.56	122.95	111.35	719.12	8,616.40	8,843.99	8,709.76	134.23	65.888		
3,400.00	3,315.50	3,219.08	3,315.50	13.14	126.76	111.53	719.12	8,616.40	8,855.47	8,716.92	138.55	63.915		
3,500.00	3,410.85	3,314.43	3,410.85	13.73	130.58	111.70	719.12	8,616.40	8,867.04	8,724.17	142.87	62.063		
3,600.00	3,506.19	3,382.00	3,478.42	14.32	133.28	111.83	719.12	8,616.40	8,878.74	8,732.65	146.10	60.773		
3,700.00	3,601.54	3,382.00	3,478.42	14.91	133.28	111.83	719.12	8,616.40	8,891.30	8,744.64	146.65	60.629		
3,800.00	3,696.89	3,382.00	3,478.42	15.50	133.28	111.83	719.12	8,616.40	8,904.95	8,757.75	147.21	60.492		
3,900.00	3,792.24	3,382.00	3,478.42	16.09	133.28	111.83	719.12	8,616.40	8,919.71	8,771.95	147.76	60.364		
4,000.00	3,887.58	3,382.00	3,478.42	16.68	133.28	111.83	719.12	8,616.40	8,935.57	8,787.24	148.32	60.244		
4,100.00	3,982.93	3,382.00	3,478.42	17.27	133.28	111.83	719.12	8,616.40	8,952.51	8,803.63	148.88	60.132		
4,200.00	4,078.28	3,382.00	3,478.42	17.86	133.28	111.83	719.12	8,616.40	8,970.53	8,821.09	149.44	60.028		
4,300.00	4,173.62	3,382.00	3,478.42	18.45	133.28	111.83	719.12	8,616.40	8,989.64	8,839.64	150.00	59.931		
4,400.00	4,268.97	3,382.00	3,478.42	19.05	133.28	111.83	719.12	8,616.40	9,009.81	8,859.25	150.56	59.842		
4,500.00	4,364.32	3,382.00	3,478.42	19.64	133.28	111.83	719.12	8,616.40	9,031.04	8,879.92	151.12	59.761		
4,600.00	4,459.67	3,382.00	3,478.42	20.23	133.28	111.83	719.12	8,616.40	9,053.33	8,901.65	151.68	59.687		
4,700.00	4,555.01	3,382.00	3,478.42	20.83	133.28	111.83	719.12	8,616.40	9,076.66	8,924.42	152.24	59.620		
4,800.00	4,650.36	3,382.00	3,478.42	21.42	133.28	111.83	719.12	8,616.40	9,101.04	8,948.23	152.80	59.561		
4,900.00	4,745.71	3,382.00	3,478.42	22.02	133.28	111.83	719.12	8,616.40	9,126.44	8,973.08	153.36	59.508		
5,000.00	4,841.05	3,382.00	3,478.42	22.61	133.28	111.83	719.12	8,616.40	9,152.87	8,998.94	153.93	59.462		
5,100.00	4,936.40	3,382.00	3,478.42	23.21	133.28	111.83	719.12	8,616.40	9,180.31	9,025.82	154.49	59.424		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,031.75	3,382.00	3,478.42	23.80	133.28	111.83	719.12	8,616.40	9,208.75	9,053.70	155.05	59.391	
5,300.00	5,127.09	3,382.00	3,478.42	24.40	133.28	111.83	719.12	8,616.40	9,238.19	9,082.58	155.62	59.366	
5,400.00	5,222.44	3,382.00	3,478.42	25.00	133.28	111.83	719.12	8,616.40	9,268.62	9,112.44	156.18	59.346	
5,500.00	5,317.79	3,382.00	3,478.42	25.59	133.28	111.83	719.12	8,616.40	9,300.02	9,143.28	156.74	59.333	
5,600.00	5,413.14	3,382.00	3,478.42	26.19	133.28	111.83	719.12	8,616.40	9,332.38	9,175.08	157.31	59.327	
5,700.00	5,508.48	3,382.00	3,478.42	26.78	133.28	111.83	719.12	8,616.40	9,365.71	9,207.84	157.87	59.326	
5,800.00	5,604.35	3,382.00	3,478.42	27.24	133.28	112.50	719.12	8,616.40	9,399.34	9,240.98	158.37	59.352	
5,900.00	5,701.15	3,382.00	3,478.42	27.65	133.28	113.15	719.12	8,616.40	9,432.66	9,273.85	158.82	59.393	
6,000.00	5,798.77	3,382.00	3,478.42	28.02	133.28	113.79	719.12	8,616.40	9,465.63	9,306.41	159.22	59.450	
6,100.00	5,897.08	3,382.00	3,478.42	28.35	133.28	114.42	719.12	8,616.40	9,498.22	9,338.65	159.57	59.525	
6,200.00	5,995.98	3,382.00	3,478.42	28.63	133.28	115.03	719.12	8,616.40	9,530.38	9,370.52	159.85	59.619	
6,300.00	6,095.33	3,382.00	3,478.42	28.87	133.28	115.64	719.12	8,616.40	9,562.08	9,402.00	160.08	59.734	
6,400.00	6,195.01	3,382.00	3,478.42	29.06	133.28	116.23	719.12	8,616.40	9,593.29	9,433.06	160.24	59.870	
6,500.00	6,294.91	3,382.00	3,478.42	29.20	133.28	116.81	719.12	8,616.40	9,623.98	9,463.66	160.32	60.029	
6,600.00	6,394.89	3,382.00	3,478.42	29.30	133.28	3.72	719.12	8,616.40	9,653.77	9,493.53	160.24	60.247	
6,700.00	6,494.28	3,382.00	3,478.42	29.34	133.28	3.61	719.12	8,616.40	9,674.47	9,516.58	157.90	61.271	
6,800.00	6,591.26	3,382.00	3,478.42	29.31	133.28	3.57	719.12	8,616.40	9,682.42	9,529.94	152.48	63.499	
6,900.00	6,683.95	3,382.00	3,478.42	29.23	133.28	3.60	719.12	8,616.40	9,677.48	9,533.37	144.11	67.154	
7,000.00	6,770.55	3,382.00	3,478.42	29.09	133.28	3.69	719.12	8,616.40	9,659.73	9,526.77	132.96	72.653	
7,100.00	6,849.36	3,382.00	3,478.42	28.92	133.28	3.86	719.12	8,616.40	9,629.44	9,510.18	119.27	80.737	
7,200.00	6,918.86	3,382.00	3,478.42	28.73	133.28	4.12	719.12	8,616.40	9,587.11	9,483.74	103.36	92.751	
7,300.00	6,977.70	3,382.00	3,478.42	28.54	133.28	4.50	719.12	8,616.40	9,533.38	9,447.73	85.65	111.306	
7,400.00	7,027.98	3,382.00	3,478.42	28.35	133.28	4.70	719.12	8,616.40	9,471.95	9,393.61	78.34	120.913	
7,500.00	7,070.01	3,382.00	3,478.42	28.19	133.28	5.35	719.12	8,616.40	9,404.14	9,344.92	59.22	158.807	
7,600.00	7,099.01	3,382.00	3,478.42	28.06	133.28	6.33	719.12	8,616.40	9,327.27	9,286.47	40.80	228.604	
7,700.00	7,114.42	3,382.00	3,478.42	27.97	133.28	7.91	719.12	8,616.40	9,242.65	9,214.47	28.18	328.010	
7,800.00	7,117.13	3,382.00	3,478.42	28.00	133.28	9.35	719.12	8,616.40	9,152.18	9,123.20	28.98	315.832	
7,900.00	7,117.44	3,382.00	3,478.42	28.26	133.28	9.35	719.12	8,616.40	9,060.87	9,031.01	29.86	303.416	
8,000.00	7,117.75	3,382.00	3,478.42	28.94	133.28	9.35	719.12	8,616.40	8,969.75	8,939.00	30.75	291.652	
8,100.00	7,118.06	3,382.00	3,478.42	30.16	133.28	9.35	719.12	8,616.40	8,878.82	8,847.17	31.65	280.510	
8,200.00	7,118.37	3,382.00	3,478.42	31.76	133.28	9.35	719.12	8,616.40	8,788.09	8,755.54	32.55	269.955	
8,300.00	7,118.68	3,382.00	3,478.42	33.58	133.28	9.35	719.12	8,616.40	8,697.56	8,664.10	33.46	259.950	
8,400.00	7,118.99	3,382.00	3,478.42	35.53	133.28	9.35	719.12	8,616.40	8,607.24	8,572.88	34.37	250.461	
8,500.00	7,119.30	3,382.00	3,478.42	37.56	133.28	9.35	719.12	8,616.40	8,517.14	8,481.87	35.27	241.452	
8,600.00	7,119.61	3,382.00	3,478.42	39.66	133.28	9.35	719.12	8,616.40	8,427.26	8,391.08	36.19	232.891	
8,700.00	7,119.92	3,382.00	3,478.42	41.80	133.28	9.35	719.12	8,616.40	8,337.62	8,300.52	37.10	224.749	
8,800.00	7,120.23	3,382.00	3,478.42	43.99	133.28	9.35	719.12	8,616.40	8,248.20	8,210.19	38.01	216.998	
8,900.00	7,120.54	3,382.00	3,478.42	46.22	133.28	9.35	719.12	8,616.40	8,159.04	8,120.12	38.92	209.612	
9,000.00	7,120.85	3,382.00	3,478.42	48.47	133.28	9.35	719.12	8,616.40	8,070.13	8,030.29	39.84	202.567	
9,100.00	7,121.16	3,382.00	3,478.42	50.75	133.28	9.35	719.12	8,616.40	7,981.48	7,940.73	40.75	195.841	
9,200.00	7,121.47	3,382.00	3,478.42	53.05	133.28	9.35	719.12	8,616.40	7,893.10	7,851.43	41.67	189.415	
9,300.00	7,121.78	3,382.00	3,478.42	55.37	133.28	9.35	719.12	8,616.40	7,805.01	7,762.42	42.59	183.270	
9,400.00	7,122.09	3,382.00	3,478.42	57.71	133.28	9.35	719.12	8,616.40	7,717.20	7,673.70	43.50	177.389	
9,500.00	7,122.40	3,382.00	3,478.42	60.06	133.28	9.35	719.12	8,616.40	7,629.70	7,585.27	44.42	171.755	
9,600.00	7,122.71	3,382.00	3,478.42	62.43	133.28	9.35	719.12	8,616.40	7,542.50	7,497.16	45.34	166.355	
9,700.00	7,123.02	3,382.00	3,478.42	64.80	133.28	9.35	719.12	8,616.40	7,455.63	7,409.37	46.26	161.176	
9,800.00	7,123.33	3,382.00	3,478.42	67.19	133.28	9.35	719.12	8,616.40	7,369.09	7,321.91	47.18	156.204	
9,900.00	7,123.65	3,382.00	3,478.42	69.59	133.28	9.35	719.12	8,616.40	7,282.89	7,234.80	48.09	151.428	
10,000.00	7,123.96	3,382.00	3,478.42	71.99	133.28	9.35	719.12	8,616.40	7,197.05	7,148.04	49.01	146.838	
10,100.00	7,124.27	3,382.00	3,478.42	74.40	133.28	9.35	719.12	8,616.40	7,111.58	7,061.65	49.93	142.424	
10,200.00	7,124.58	3,382.00	3,478.42	76.82	133.28	9.35	719.12	8,616.40	7,026.50	6,975.65	50.85	138.176	
10,300.00	7,124.89	3,382.00	3,478.42	79.25	133.28	9.35	719.12	8,616.40	6,941.81	6,890.04	51.77	134.087	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	3,382.00	3,478.42	81.68	133.28	9.35	719.12	8,616.40	6,857.53	6,804.84	52.69	130.147		
10,500.00	7,125.51	3,382.00	3,478.42	84.12	133.28	9.35	719.12	8,616.40	6,773.69	6,720.08	53.61	126.351		
10,600.00	7,125.82	3,382.00	3,478.42	86.56	133.28	9.35	719.12	8,616.40	6,690.28	6,635.75	54.53	122.690		
10,700.00	7,126.13	3,382.00	3,478.42	89.01	133.28	9.35	719.12	8,616.40	6,607.34	6,551.89	55.45	119.159		
10,800.00	7,126.44	3,382.00	3,478.42	91.46	133.28	9.35	719.12	8,616.40	6,524.87	6,468.50	56.37	115.751		
10,900.00	7,126.75	3,382.00	3,478.42	93.91	133.28	9.35	719.12	8,616.40	6,442.91	6,385.62	57.29	112.462		
11,000.00	7,127.06	3,382.00	3,478.42	96.37	133.28	9.35	719.12	8,616.40	6,361.45	6,303.24	58.21	109.285		
11,100.00	7,127.37	3,382.00	3,478.42	98.83	133.28	9.35	719.12	8,616.40	6,280.54	6,221.41	59.13	106.215		
11,200.00	7,127.68	3,382.00	3,478.42	101.30	133.28	9.35	719.12	8,616.40	6,200.18	6,140.13	60.05	103.249		
11,300.00	7,127.99	3,382.00	3,478.42	103.77	133.28	9.35	719.12	8,616.40	6,120.40	6,059.43	60.97	100.382		
11,400.00	7,128.30	3,382.00	3,478.42	106.24	133.28	9.35	719.12	8,616.40	6,041.22	5,979.33	61.89	97.610		
11,500.00	7,128.61	3,382.00	3,478.42	108.71	133.28	9.35	719.12	8,616.40	5,962.66	5,899.85	62.81	94.929		
11,600.00	7,128.92	3,382.00	3,478.42	111.19	133.28	9.35	719.12	8,616.40	5,884.76	5,821.03	63.73	92.335		
11,700.00	7,129.23	3,382.00	3,478.42	113.66	133.28	9.35	719.12	8,616.40	5,807.54	5,742.88	64.65	89.826		
11,800.00	7,129.54	3,382.00	3,478.42	116.14	133.28	9.35	719.12	8,616.40	5,731.02	5,665.44	65.57	87.398		
11,900.00	7,129.85	3,382.00	3,478.42	118.62	133.28	9.35	719.12	8,616.40	5,655.23	5,588.73	66.49	85.048		
12,000.00	7,130.16	3,382.00	3,478.42	121.11	133.28	9.35	719.12	8,616.40	5,580.20	5,512.79	67.42	82.774		
12,100.00	7,130.47	3,382.00	3,478.42	123.59	133.28	9.35	719.12	8,616.40	5,505.97	5,437.63	68.34	80.572		
12,200.00	7,130.78	3,382.00	3,478.42	126.08	133.28	9.35	719.12	8,616.40	5,432.56	5,363.31	69.26	78.441		
12,300.00	7,131.09	3,382.00	3,478.42	128.57	133.28	9.35	719.12	8,616.40	5,360.02	5,289.84	70.18	76.378		
12,400.00	7,131.40	3,382.00	3,478.42	131.06	133.28	9.35	719.12	8,616.40	5,288.37	5,217.27	71.10	74.381		
12,500.00	7,131.71	3,382.00	3,478.42	133.55	133.28	9.35	719.12	8,616.40	5,217.66	5,145.64	72.02	72.448		
12,600.00	7,132.02	3,382.00	3,478.42	136.04	133.28	9.35	719.12	8,616.40	5,147.91	5,074.97	72.94	70.577		
12,700.00	7,132.33	3,382.00	3,478.42	138.54	133.28	9.35	719.12	8,616.40	5,079.18	5,005.31	73.86	68.766		
12,800.00	7,132.64	3,382.00	3,478.42	141.03	133.28	9.35	719.12	8,616.40	5,011.50	4,936.71	74.78	67.014		
12,900.00	7,132.95	3,382.00	3,478.42	143.53	133.28	9.35	719.12	8,616.40	4,944.91	4,869.21	75.70	65.319		
13,000.00	7,133.26	3,382.00	3,478.42	146.02	133.28	9.35	719.12	8,616.40	4,879.47	4,802.84	76.63	63.680		
13,100.00	7,133.57	3,382.00	3,478.42	148.52	133.28	9.35	719.12	8,616.40	4,815.21	4,737.66	77.55	62.095		
13,200.00	7,133.88	3,382.00	3,478.42	151.02	133.28	9.35	719.12	8,616.40	4,752.19	4,673.72	78.47	60.563		
13,300.00	7,134.19	3,382.00	3,478.42	153.52	133.28	9.35	719.12	8,616.40	4,690.45	4,611.07	79.39	59.082		
13,400.00	7,134.50	3,382.00	3,478.42	156.02	133.28	9.35	719.12	8,616.40	4,630.06	4,549.75	80.31	57.653		
13,500.00	7,134.81	3,382.00	3,478.42	158.52	133.28	9.35	719.12	8,616.40	4,571.05	4,489.82	81.23	56.272		
13,600.00	7,135.12	3,382.00	3,478.42	161.03	133.28	9.35	719.12	8,616.40	4,513.48	4,431.33	82.15	54.941		
13,700.00	7,135.43	3,382.00	3,478.42	163.53	133.28	9.35	719.12	8,616.40	4,457.42	4,374.35	83.07	53.656		
13,800.00	7,135.74	3,382.00	3,478.42	166.03	133.28	9.35	719.12	8,616.40	4,402.91	4,318.92	83.99	52.419		
13,900.00	7,136.05	3,382.00	3,478.42	168.54	133.28	9.35	719.12	8,616.40	4,350.02	4,265.11	84.92	51.227		
14,000.00	7,136.36	3,382.00	3,478.42	171.04	133.28	9.35	719.12	8,616.40	4,298.81	4,212.97	85.84	50.081		
14,100.00	7,136.67	3,382.00	3,478.42	173.55	133.28	9.35	719.12	8,616.40	4,249.33	4,162.57	86.76	48.979		
14,200.00	7,136.98	3,382.00	3,478.42	176.05	133.28	9.35	719.12	8,616.40	4,201.65	4,113.97	87.68	47.920		
14,300.00	7,137.29	3,382.00	3,478.42	178.56	133.28	9.35	719.12	8,616.40	4,155.83	4,067.23	88.60	46.905		
14,400.00	7,137.60	3,382.00	3,478.42	181.07	133.28	9.35	719.12	8,616.40	4,111.93	4,022.41	89.52	45.932		
14,500.00	7,137.91	3,382.00	3,478.42	183.58	133.28	9.35	719.12	8,616.40	4,070.02	3,979.57	90.44	45.000		
14,600.00	7,138.22	3,382.00	3,478.42	186.09	133.28	9.35	719.12	8,616.40	4,030.15	3,938.78	91.37	44.110		
14,700.00	7,138.53	3,382.00	3,478.42	188.59	133.28	9.35	719.12	8,616.40	3,992.39	3,900.10	92.29	43.261		
14,800.00	7,138.84	3,382.00	3,478.42	191.10	133.28	9.35	719.12	8,616.40	3,956.79	3,863.58	93.21	42.451		
14,900.00	7,139.15	3,382.00	3,478.42	193.61	133.28	9.35	719.12	8,616.40	3,923.42	3,829.29	94.13	41.681		
15,000.00	7,139.46	3,382.00	3,478.42	196.13	133.28	9.35	719.12	8,616.40	3,892.34	3,797.29	95.05	40.950		
15,100.00	7,139.77	3,382.00	3,478.42	198.64	133.28	9.35	719.12	8,616.40	3,863.59	3,767.62	95.97	40.257		
15,200.00	7,140.08	3,382.00	3,478.42	201.15	133.28	9.35	719.12	8,616.40	3,837.24	3,740.35	96.89	39.602		
15,300.00	7,140.39	3,382.00	3,478.42	203.66	133.28	9.35	719.12	8,616.40	3,813.33	3,715.51	97.82	38.985		
15,400.00	7,140.70	3,382.00	3,478.42	206.17	133.28	9.35	719.12	8,616.40	3,791.90	3,693.17	98.74	38.404		
15,500.00	7,141.01	3,382.00	3,478.42	208.68	133.28	9.35	719.12	8,616.40	3,773.01	3,673.35	99.66	37.859		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438 - OH - OH											Offset Site Error: 0.00 usft		
Survey Program: 100-UNKNOWN											Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,600.00	7,141.32	3,382.00	3,478.42	211.20	133.28	9.35	719.12	8,616.40	3,756.68	3,656.10	100.58	37.350	
15,700.00	7,141.63	3,382.00	3,478.42	213.71	133.28	9.35	719.12	8,616.40	3,742.95	3,641.45	101.50	36.876	
15,800.00	7,141.94	3,382.00	3,478.42	216.22	133.28	9.35	719.12	8,616.40	3,731.86	3,629.43	102.42	36.436	
15,900.00	7,142.25	3,382.00	3,478.42	218.74	133.28	9.35	719.12	8,616.40	3,723.41	3,620.07	103.34	36.029	
16,000.00	7,142.56	3,382.00	3,478.42	221.25	133.28	9.35	719.12	8,616.40	3,717.64	3,613.38	104.27	35.655	
16,100.00	7,142.87	3,382.00	3,478.42	223.77	133.28	9.35	719.12	8,616.40	3,714.55	3,609.37	105.19	35.314	
16,164.72	7,143.07	3,382.00	3,478.42	225.39	133.28	9.35	719.12	8,616.40	3,713.99	3,608.17	105.82	35.098	CC
16,200.00	7,143.18	3,382.00	3,478.42	226.28	133.28	9.35	719.12	8,616.40	3,714.16	3,608.05	106.11	35.003	ES
16,300.00	7,143.49	3,382.00	3,478.42	228.80	133.28	9.35	719.12	8,616.40	3,716.45	3,609.42	107.03	34.723	
16,400.00	7,143.80	3,382.00	3,478.42	231.31	133.28	9.35	719.12	8,616.40	3,721.44	3,613.48	107.95	34.473	
16,500.00	7,144.11	3,382.00	3,478.42	233.83	133.28	9.35	719.12	8,616.40	3,729.09	3,620.22	108.87	34.252	
16,600.00	7,144.42	3,382.00	3,478.42	236.34	133.28	9.35	719.12	8,616.40	3,739.41	3,629.62	109.80	34.058	
16,700.00	7,144.73	3,382.00	3,478.42	238.86	133.28	9.35	719.12	8,616.40	3,752.37	3,641.65	110.72	33.892	
16,800.00	7,145.05	3,382.00	3,478.42	241.37	133.28	9.35	719.12	8,616.40	3,767.93	3,656.29	111.64	33.751	
16,900.00	7,145.36	3,382.00	3,478.42	243.89	133.28	9.35	719.12	8,616.40	3,786.07	3,673.51	112.56	33.636	
17,000.00	7,145.67	3,382.00	3,478.42	246.41	133.28	9.35	719.12	8,616.40	3,806.76	3,693.28	113.48	33.545	
17,100.00	7,145.98	3,382.00	3,478.42	248.93	133.28	9.35	719.12	8,616.40	3,829.94	3,715.54	114.40	33.478	
17,200.00	7,146.29	3,382.00	3,478.42	251.44	133.28	9.35	719.12	8,616.40	3,855.58	3,740.26	115.32	33.432	
17,300.00	7,146.60	3,382.00	3,478.42	253.96	133.28	9.35	719.12	8,616.40	3,883.63	3,767.38	116.25	33.409	
17,400.00	7,146.91	3,382.00	3,478.42	256.48	133.28	9.35	719.12	8,616.40	3,914.03	3,796.86	117.17	33.405	SF
17,430.36	7,147.00	3,382.00	3,478.42	257.24	133.28	9.35	719.12	8,616.40	3,923.72	3,806.27	117.45	33.408	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438A - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	164.32	0.00	0.00	109.22	-2,579.10	7,397.70	7,836.12					
100.00	100.00	0.00	164.32	0.08	0.00	109.22	-2,579.10	7,397.70	7,834.66	7,834.57	0.08	N/A		
193.42	193.42	29.10	193.42	0.29	0.58	109.22	-2,579.10	7,397.70	7,834.39	7,833.52	0.88	8,938.333		
200.00	200.00	35.68	200.00	0.31	0.71	109.22	-2,579.10	7,397.70	7,834.39	7,833.37	1.02	7,659.885		
248.18	248.18	83.86	248.18	0.42	1.68	109.22	-2,579.10	7,397.70	7,834.39	7,832.30	2.09	3,740.490 CC		
300.00	300.00	100.00	264.32	0.53	2.00	109.22	-2,579.10	7,397.70	7,834.47	7,831.94	2.53	3,091.962		
400.00	400.00	100.00	264.32	0.76	2.00	109.22	-2,579.10	7,397.70	7,835.57	7,832.81	2.76	2,840.430		
500.00	500.00	100.00	264.32	0.98	2.00	109.22	-2,579.10	7,397.70	7,837.94	7,834.95	2.98	2,627.226		
600.00	600.00	100.00	264.32	1.21	2.00	109.22	-2,579.10	7,397.70	7,841.58	7,838.37	3.21	2,444.294		
700.00	700.00	100.00	264.32	1.43	2.00	109.22	-2,579.10	7,397.70	7,846.50	7,843.07	3.43	2,285.687		
800.00	800.00	100.00	264.32	1.66	2.00	109.22	-2,579.10	7,397.70	7,852.69	7,849.03	3.66	2,146.921		
900.00	900.00	100.00	264.32	1.88	2.00	109.22	-2,579.10	7,397.70	7,860.14	7,856.26	3.88	2,024.549		
1,000.00	1,000.00	100.00	264.32	2.11	2.00	109.22	-2,579.10	7,397.70	7,868.86	7,864.75	4.11	1,915.878		
1,100.00	1,099.98	100.00	264.32	2.33	2.00	132.67	-2,579.10	7,397.70	7,880.02	7,875.69	4.33	1,819.920		
1,200.00	1,199.84	100.00	264.32	2.56	2.00	132.45	-2,579.10	7,397.70	7,894.76	7,890.21	4.55	1,734.829		
1,300.00	1,299.45	100.00	264.32	2.79	2.00	132.18	-2,579.10	7,397.70	7,913.07	7,908.30	4.77	1,657.530		
1,400.00	1,398.70	100.00	264.32	3.03	2.00	131.85	-2,579.10	7,397.70	7,934.88	7,929.88	5.00	1,585.578		
1,500.00	1,497.47	100.00	264.32	3.30	2.00	131.46	-2,579.10	7,397.70	7,960.15	7,954.90	5.25	1,516.828		
1,600.00	1,595.62	100.00	264.32	3.61	2.00	131.01	-2,579.10	7,397.70	7,988.80	7,983.29	5.51	1,449.555		
1,700.00	1,693.06	100.00	264.32	3.95	2.00	130.49	-2,579.10	7,397.70	8,020.78	8,014.97	5.80	1,382.514		
1,800.00	1,789.64	100.00	264.32	4.35	2.00	129.92	-2,579.10	7,397.70	8,055.99	8,049.86	6.13	1,314.967		
1,900.00	1,885.30	100.00	264.32	4.80	2.00	129.43	-2,579.10	7,397.70	8,094.31	8,087.81	6.49	1,246.505		
2,000.00	1,980.64	100.00	264.32	5.29	2.00	129.43	-2,579.10	7,397.70	8,134.28	8,127.39	6.89	1,179.937		
2,100.00	2,075.99	100.00	264.32	5.80	2.00	129.43	-2,579.10	7,397.70	8,175.29	8,167.97	7.31	1,118.198		
2,200.00	2,171.34	100.00	264.32	6.33	2.00	129.43	-2,579.10	7,397.70	8,217.30	8,209.56	7.74	1,061.421		
2,300.00	2,266.68	100.00	264.32	6.87	2.00	129.43	-2,579.10	7,397.70	8,260.31	8,252.13	8.18	1,009.441		
2,400.00	2,362.03	100.00	264.32	7.41	2.00	129.43	-2,579.10	7,397.70	8,304.31	8,295.68	8.63	961.947		
2,500.00	2,457.38	100.00	264.32	7.97	2.00	129.43	-2,579.10	7,397.70	8,349.27	8,340.18	9.09	918.567		
2,600.00	2,552.72	100.00	264.32	8.53	2.00	129.43	-2,579.10	7,397.70	8,395.18	8,385.63	9.55	878.917		
2,700.00	2,648.07	100.00	264.32	9.10	2.00	129.43	-2,579.10	7,397.70	8,442.03	8,432.01	10.02	842.628		
2,800.00	2,743.42	100.00	264.32	9.67	2.00	129.43	-2,579.10	7,397.70	8,489.79	8,479.30	10.49	809.358		
2,900.00	2,838.77	100.00	264.32	10.24	2.00	129.43	-2,579.10	7,397.70	8,538.46	8,527.50	10.96	778.795		
3,000.00	2,934.11	100.00	264.32	10.82	2.00	129.43	-2,579.10	7,397.70	8,588.02	8,576.58	11.44	750.660		
3,100.00	3,029.46	100.00	264.32	11.40	2.00	129.43	-2,579.10	7,397.70	8,638.45	8,626.53	11.92	724.705		
3,200.00	3,124.81	100.00	264.32	11.98	2.00	129.43	-2,579.10	7,397.70	8,689.74	8,677.34	12.40	700.709		
3,300.00	3,220.15	100.00	264.32	12.56	2.00	129.43	-2,579.10	7,397.70	8,741.87	8,728.99	12.88	678.477		
3,400.00	3,315.50	100.00	264.32	13.14	2.00	129.43	-2,579.10	7,397.70	8,794.83	8,781.46	13.37	657.838		
3,500.00	3,410.85	100.00	264.32	13.73	2.00	129.43	-2,579.10	7,397.70	8,848.61	8,834.75	13.86	638.638		
3,600.00	3,506.19	100.00	264.32	14.32	2.00	129.43	-2,579.10	7,397.70	8,903.18	8,888.84	14.34	620.743		
3,700.00	3,601.54	100.00	264.32	14.91	2.00	129.43	-2,579.10	7,397.70	8,958.53	8,943.70	14.83	604.033		
3,800.00	3,696.89	100.00	264.32	15.50	2.00	129.43	-2,579.10	7,397.70	9,014.66	8,999.34	15.32	588.403		
3,900.00	3,792.24	100.00	264.32	16.09	2.00	129.43	-2,579.10	7,397.70	9,071.54	9,055.73	15.81	573.756		
4,000.00	3,887.58	100.00	264.32	16.68	2.00	129.43	-2,579.10	7,397.70	9,129.16	9,112.86	16.30	560.010		
4,100.00	3,982.93	100.00	264.32	17.27	2.00	129.43	-2,579.10	7,397.70	9,187.51	9,170.72	16.79	547.088		
4,200.00	4,078.28	100.00	264.32	17.86	2.00	129.43	-2,579.10	7,397.70	9,246.57	9,229.29	17.29	534.924		
4,300.00	4,173.62	100.00	264.32	18.45	2.00	129.43	-2,579.10	7,397.70	9,306.33	9,288.56	17.78	523.456		
4,400.00	4,268.97	100.00	264.32	19.05	2.00	129.43	-2,579.10	7,397.70	9,366.78	9,348.51	18.27	512.630		
4,500.00	4,364.32	100.00	264.32	19.64	2.00	129.43	-2,579.10	7,397.70	9,427.90	9,409.14	18.77	502.396		
4,600.00	4,459.67	100.00	264.32	20.23	2.00	129.43	-2,579.10	7,397.70	9,489.68	9,470.42	19.26	492.710		
4,700.00	4,555.01	100.00	264.32	20.83	2.00	129.43	-2,579.10	7,397.70	9,552.11	9,532.36	19.75	483.533		
4,800.00	4,650.36	100.00	264.32	21.42	2.00	129.43	-2,579.10	7,397.70	9,615.18	9,594.93	20.25	474.826		
4,900.00	4,745.71	100.00	264.32	22.02	2.00	129.43	-2,579.10	7,397.70	9,678.86	9,658.12	20.75	466.558		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438A - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,841.05	100.00	264.32	22.61	2.00	129.43	-2,579.10	7,397.70	9,743.16	9,721.92	21.24	458.697	
5,100.00	4,936.40	100.00	264.32	23.21	2.00	129.43	-2,579.10	7,397.70	9,808.05	9,786.31	21.74	451.216	
5,200.00	5,031.75	100.00	264.32	23.80	2.00	129.43	-2,579.10	7,397.70	9,873.53	9,851.30	22.23	444.091	
5,300.00	5,127.09	100.00	264.32	24.40	2.00	129.43	-2,579.10	7,397.70	9,939.59	9,916.86	22.73	437.297	
5,400.00	5,222.44	100.00	264.32	25.00	2.00	129.43	-2,579.10	7,397.70	10,006.21	9,982.98	23.23	430.813	
5,500.00	5,317.79	100.00	264.32	25.59	2.00	129.43	-2,579.10	7,397.70	10,073.38	10,049.65	23.72	424.621	
5,600.00	5,413.14	100.00	264.32	26.19	2.00	129.43	-2,579.10	7,397.70	10,141.09	10,116.87	24.22	418.701	
5,700.00	5,508.48	100.00	264.32	26.78	2.00	129.45	-2,579.10	7,397.70	10,209.33	10,184.62	24.71	413.109	
5,800.00	5,604.35	100.00	264.32	27.24	2.00	130.87	-2,579.10	7,397.70	10,277.25	10,252.40	24.85	413.497	
5,900.00	5,701.15	100.00	264.32	27.65	2.00	132.21	-2,579.10	7,397.70	10,344.02	10,319.06	24.96	414.440	
6,000.00	5,798.77	100.00	264.32	28.02	2.00	133.48	-2,579.10	7,397.70	10,409.57	10,384.54	25.03	415.927	
6,100.00	5,897.08	100.00	264.32	28.35	2.00	134.69	-2,579.10	7,397.70	10,473.85	10,448.79	25.06	417.951	
6,200.00	5,995.98	100.00	264.32	28.63	2.00	135.83	-2,579.10	7,397.70	10,536.80	10,511.75	25.06	420.507	
6,300.00	6,095.33	100.00	264.32	28.87	2.00	136.91	-2,579.10	7,397.70	10,598.38	10,573.36	25.02	423.595	
6,400.00	6,195.01	100.00	264.32	29.06	2.00	137.92	-2,579.10	7,397.70	10,658.53	10,633.58	24.95	427.216	
6,500.00	6,294.91	100.00	264.32	29.20	2.00	138.89	-2,579.10	7,397.70	10,717.20	10,692.36	24.84	431.375	
6,600.00	6,394.89	100.00	264.32	29.30	2.00	25.54	-2,579.10	7,397.70	10,774.11	10,749.30	24.81	434.239	
6,700.00	6,494.28	100.00	264.32	29.34	2.00	23.65	-2,579.10	7,397.70	10,823.39	10,798.67	24.72	437.790	
6,800.00	6,591.26	100.00	264.32	29.31	2.00	22.34	-2,579.10	7,397.70	10,861.95	10,837.91	24.04	451.791	
6,900.00	6,683.95	100.00	264.32	29.23	2.00	21.50	-2,579.10	7,397.70	10,889.16	10,866.36	22.80	477.611	
7,000.00	6,770.55	100.00	264.32	29.09	2.00	21.04	-2,579.10	7,397.70	10,904.56	10,883.52	21.04	518.189	
7,100.00	6,849.36	100.00	264.32	28.92	2.00	20.95	-2,579.10	7,397.70	10,907.92	10,889.07	18.84	578.826	
7,200.00	6,918.86	100.00	264.32	28.73	2.00	21.20	-2,579.10	7,397.70	10,899.17	10,882.87	16.30	668.592	
7,300.00	6,977.70	100.00	264.32	28.54	2.00	21.82	-2,579.10	7,397.70	10,878.47	10,864.86	13.61	799.337	
7,400.00	7,027.98	100.00	264.32	28.35	2.00	22.18	-2,579.10	7,397.70	10,849.37	10,836.32	13.05	831.633	
7,500.00	7,070.01	100.00	264.32	28.19	2.00	23.39	-2,579.10	7,397.70	10,813.02	10,802.06	10.96	986.548	
7,600.00	7,099.01	100.00	264.32	28.06	2.00	25.16	-2,579.10	7,397.70	10,765.81	10,755.98	9.83	1,095.691	
7,700.00	7,114.42	100.00	264.32	27.97	2.00	27.65	-2,579.10	7,397.70	10,708.52	10,698.05	10.47	1,022.768	
7,800.00	7,117.13	100.00	264.32	28.00	2.00	29.56	-2,579.10	7,397.70	10,642.88	10,630.59	12.29	865.875	
7,900.00	7,117.44	100.00	264.32	28.26	2.00	29.56	-2,579.10	7,397.70	10,576.17	10,562.55	13.61	777.014	
8,000.00	7,117.75	100.00	264.32	28.94	2.00	29.56	-2,579.10	7,397.70	10,509.98	10,494.97	15.01	700.307	
8,100.00	7,118.06	100.00	264.32	30.16	2.00	29.56	-2,579.10	7,397.70	10,444.33	10,427.87	16.46	634.518	
8,200.00	7,118.37	100.00	264.32	31.76	2.00	29.56	-2,579.10	7,397.70	10,379.23	10,361.28	17.95	578.078	
8,300.00	7,118.68	100.00	264.32	33.58	2.00	29.56	-2,579.10	7,397.70	10,314.69	10,295.21	19.48	529.477	
8,400.00	7,118.99	100.00	264.32	35.53	2.00	29.56	-2,579.10	7,397.70	10,250.72	10,229.69	21.03	487.396	
8,500.00	7,119.30	100.00	264.32	37.56	2.00	29.56	-2,579.10	7,397.70	10,187.33	10,164.73	22.60	450.739	
8,600.00	7,119.61	100.00	264.32	39.66	2.00	29.56	-2,579.10	7,397.70	10,124.53	10,100.34	24.19	418.603	
8,700.00	7,119.92	100.00	264.32	41.80	2.00	29.56	-2,579.10	7,397.70	10,062.33	10,036.55	25.78	390.257	
8,800.00	7,120.23	100.00	264.32	43.99	2.00	29.56	-2,579.10	7,397.70	10,000.75	9,973.36	27.39	365.107	
8,900.00	7,120.54	100.00	264.32	46.22	2.00	29.56	-2,579.10	7,397.70	9,939.79	9,910.78	29.01	342.669	
9,000.00	7,120.85	100.00	264.32	48.47	2.00	29.56	-2,579.10	7,397.70	9,879.46	9,848.83	30.63	322.546	
9,100.00	7,121.16	100.00	264.32	50.75	2.00	29.56	-2,579.10	7,397.70	9,819.78	9,787.53	32.26	304.413	
9,200.00	7,121.47	100.00	264.32	53.05	2.00	29.56	-2,579.10	7,397.70	9,760.77	9,726.88	33.89	288.000	
9,300.00	7,121.78	100.00	264.32	55.37	2.00	29.56	-2,579.10	7,397.70	9,702.42	9,666.89	35.53	273.083	
9,400.00	7,122.09	100.00	264.32	57.71	2.00	29.56	-2,579.10	7,397.70	9,644.76	9,607.59	37.17	259.474	
9,500.00	7,122.40	100.00	264.32	60.06	2.00	29.56	-2,579.10	7,397.70	9,587.79	9,548.98	38.81	247.013	
9,600.00	7,122.71	100.00	264.32	62.43	2.00	29.56	-2,579.10	7,397.70	9,531.54	9,491.07	40.46	235.566	
9,700.00	7,123.02	100.00	264.32	64.80	2.00	29.56	-2,579.10	7,397.70	9,476.00	9,433.89	42.11	225.019	
9,800.00	7,123.33	100.00	264.32	67.19	2.00	29.56	-2,579.10	7,397.70	9,421.20	9,377.44	43.76	215.273	
9,900.00	7,123.65	100.00	264.32	69.59	2.00	29.56	-2,579.10	7,397.70	9,367.15	9,321.73	45.42	206.245	
10,000.00	7,123.96	100.00	264.32	71.99	2.00	29.56	-2,579.10	7,397.70	9,313.85	9,266.78	47.07	197.859	
10,100.00	7,124.27	100.00	264.32	74.40	2.00	29.56	-2,579.10	7,397.70	9,261.33	9,212.60	48.73	190.053	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438A - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	7,124.58	100.00	264.32	76.82	2.00	29.56	-2,579.10	7,397.70	9,209.59	9,159.21	50.39	182.772		
10,300.00	7,124.89	100.00	264.32	79.25	2.00	29.56	-2,579.10	7,397.70	9,158.66	9,106.61	52.05	175.965		
10,400.00	7,125.20	100.00	264.32	81.68	2.00	29.56	-2,579.10	7,397.70	9,108.54	9,054.83	53.71	169.591		
10,500.00	7,125.51	100.00	264.32	84.12	2.00	29.56	-2,579.10	7,397.70	9,059.24	9,003.87	55.37	163.611		
10,600.00	7,125.82	100.00	264.32	86.56	2.00	29.56	-2,579.10	7,397.70	9,010.79	8,953.75	57.03	157.992		
10,700.00	7,126.13	100.00	264.32	89.01	2.00	29.56	-2,579.10	7,397.70	8,963.18	8,904.49	58.70	152.703		
10,800.00	7,126.44	100.00	264.32	91.46	2.00	29.56	-2,579.10	7,397.70	8,916.45	8,856.09	60.36	147.718		
10,900.00	7,126.75	100.00	264.32	93.91	2.00	29.56	-2,579.10	7,397.70	8,870.60	8,808.57	62.03	143.014		
11,000.00	7,127.06	100.00	264.32	96.37	2.00	29.56	-2,579.10	7,397.70	8,825.64	8,761.95	63.69	138.568		
11,100.00	7,127.37	100.00	264.32	98.83	2.00	29.56	-2,579.10	7,397.70	8,781.59	8,716.23	65.36	134.361		
11,200.00	7,127.68	100.00	264.32	101.30	2.00	29.56	-2,579.10	7,397.70	8,738.46	8,671.44	67.02	130.377		
11,300.00	7,127.99	100.00	264.32	103.77	2.00	29.56	-2,579.10	7,397.70	8,696.27	8,627.58	68.69	126.598		
11,400.00	7,128.30	100.00	264.32	106.24	2.00	29.56	-2,579.10	7,397.70	8,655.03	8,584.67	70.36	123.011		
11,500.00	7,128.61	100.00	264.32	108.71	2.00	29.56	-2,579.10	7,397.70	8,614.75	8,542.72	72.03	119.603		
11,600.00	7,128.92	100.00	264.32	111.19	2.00	29.56	-2,579.10	7,397.70	8,575.45	8,501.75	73.70	116.361		
11,700.00	7,129.23	100.00	264.32	113.66	2.00	29.56	-2,579.10	7,397.70	8,537.14	8,461.77	75.37	113.276		
11,800.00	7,129.54	100.00	264.32	116.14	2.00	29.56	-2,579.10	7,397.70	8,499.83	8,422.80	77.04	110.337		
11,900.00	7,129.85	100.00	264.32	118.62	2.00	29.56	-2,579.10	7,397.70	8,463.54	8,384.84	78.70	107.535		
12,000.00	7,130.16	100.00	264.32	121.11	2.00	29.56	-2,579.10	7,397.70	8,428.28	8,347.91	80.37	104.862		
12,100.00	7,130.47	100.00	264.32	123.59	2.00	29.56	-2,579.10	7,397.70	8,394.07	8,312.02	82.05	102.310		
12,200.00	7,130.78	100.00	264.32	126.08	2.00	29.56	-2,579.10	7,397.70	8,360.91	8,277.19	83.72	99.873		
12,300.00	7,131.09	100.00	264.32	128.57	2.00	29.56	-2,579.10	7,397.70	8,328.82	8,243.43	85.39	97.542		
12,400.00	7,131.40	100.00	264.32	131.06	2.00	29.56	-2,579.10	7,397.70	8,297.81	8,210.75	87.06	95.314		
12,500.00	7,131.71	100.00	264.32	133.55	2.00	29.56	-2,579.10	7,397.70	8,267.89	8,179.16	88.73	93.181		
12,600.00	7,132.02	100.00	264.32	136.04	2.00	29.56	-2,579.10	7,397.70	8,239.08	8,148.68	90.40	91.140		
12,700.00	7,132.33	100.00	264.32	138.54	2.00	29.56	-2,579.10	7,397.70	8,211.38	8,119.31	92.07	89.184		
12,800.00	7,132.64	100.00	264.32	141.03	2.00	29.56	-2,579.10	7,397.70	8,184.82	8,091.07	93.74	87.310		
12,900.00	7,132.95	100.00	264.32	143.53	2.00	29.56	-2,579.10	7,397.70	8,159.39	8,063.97	95.42	85.513		
13,000.00	7,133.26	100.00	264.32	146.02	2.00	29.56	-2,579.10	7,397.70	8,135.11	8,038.02	97.09	83.790		
13,100.00	7,133.57	100.00	264.32	148.52	2.00	29.56	-2,579.10	7,397.70	8,111.99	8,013.23	98.76	82.137		
13,200.00	7,133.88	100.00	264.32	151.02	2.00	29.56	-2,579.10	7,397.70	8,090.05	7,989.61	100.43	80.551		
13,300.00	7,134.19	100.00	264.32	153.52	2.00	29.56	-2,579.10	7,397.70	8,069.28	7,967.17	102.11	79.028		
13,400.00	7,134.50	100.00	264.32	156.02	2.00	29.56	-2,579.10	7,397.70	8,049.70	7,945.92	103.78	77.565		
13,500.00	7,134.81	100.00	264.32	158.52	2.00	29.56	-2,579.10	7,397.70	8,031.32	7,925.86	105.45	76.161		
13,600.00	7,135.12	100.00	264.32	161.03	2.00	29.56	-2,579.10	7,397.70	8,014.14	7,907.02	107.13	74.811		
13,700.00	7,135.43	100.00	264.32	163.53	2.00	29.56	-2,579.10	7,397.70	7,998.18	7,889.38	108.80	73.513		
13,800.00	7,135.74	100.00	264.32	166.03	2.00	29.56	-2,579.10	7,397.70	7,983.44	7,872.96	110.47	72.266		
13,900.00	7,136.05	100.00	264.32	168.54	2.00	29.56	-2,579.10	7,397.70	7,969.92	7,857.78	112.15	71.067		
14,000.00	7,136.36	100.00	264.32	171.04	2.00	29.56	-2,579.10	7,397.70	7,957.64	7,843.82	113.82	69.915		
14,100.00	7,136.67	100.00	264.32	173.55	2.00	29.56	-2,579.10	7,397.70	7,946.60	7,831.11	115.49	68.806		
14,200.00	7,136.98	100.00	264.32	176.05	2.00	29.56	-2,579.10	7,397.70	7,936.81	7,819.64	117.17	67.739		
14,300.00	7,137.29	100.00	264.32	178.56	2.00	29.56	-2,579.10	7,397.70	7,928.26	7,809.42	118.84	66.713		
14,400.00	7,137.60	100.00	264.32	181.07	2.00	29.56	-2,579.10	7,397.70	7,920.97	7,800.45	120.51	65.726		
14,500.00	7,137.91	100.00	264.32	183.58	2.00	29.56	-2,579.10	7,397.70	7,914.93	7,792.74	122.19	64.776		
14,600.00	7,138.22	100.00	264.32	186.09	2.00	29.56	-2,579.10	7,397.70	7,910.15	7,786.29	123.86	63.862		
14,700.00	7,138.53	100.00	264.32	188.59	2.00	29.56	-2,579.10	7,397.70	7,906.64	7,781.10	125.54	62.982		
14,800.00	7,138.84	100.00	264.32	191.10	2.00	29.56	-2,579.10	7,397.70	7,904.39	7,777.18	127.21	62.136		
14,900.00	7,139.15	100.00	264.32	193.61	2.00	29.56	-2,579.10	7,397.70	7,903.40	7,774.51	128.89	61.321		
14,927.97	7,139.24	100.00	264.32	194.32	2.00	29.56	-2,579.10	7,397.70	7,903.35	7,773.79	129.56	61.003		
15,000.00	7,139.46	100.00	264.32	196.13	2.00	29.56	-2,579.10	7,397.70	7,903.68	7,773.12	130.56	60.536		
15,100.00	7,139.77	100.00	264.32	198.64	2.00	29.56	-2,579.10	7,397.70	7,905.22	7,772.99	132.24	59.782 ES		
15,200.00	7,140.08	100.00	264.32	201.15	2.00	29.56	-2,579.10	7,397.70	7,908.03	7,774.12	133.91	59.055		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 438A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,300.00	7,140.39	100.00	264.32	203.66	2.00	29.56	-2,579.10	7,397.70	7,912.10	7,776.52	135.58	58.356		
15,400.00	7,140.70	100.00	264.32	206.17	2.00	29.56	-2,579.10	7,397.70	7,917.43	7,780.18	137.26	57.682		
15,500.00	7,141.01	100.00	264.32	208.68	2.00	29.56	-2,579.10	7,397.70	7,924.03	7,785.09	138.93	57.034		
15,600.00	7,141.32	100.00	264.32	211.20	2.00	29.56	-2,579.10	7,397.70	7,931.87	7,791.26	140.61	56.411		
15,700.00	7,141.63	100.00	264.32	213.71	2.00	29.56	-2,579.10	7,397.70	7,940.97	7,798.69	142.28	55.811		
15,800.00	7,141.94	100.00	264.32	216.22	2.00	29.56	-2,579.10	7,397.70	7,951.31	7,807.36	143.96	55.233		
15,900.00	7,142.25	100.00	264.32	218.74	2.00	29.56	-2,579.10	7,397.70	7,962.90	7,817.27	145.63	54.678		
16,000.00	7,142.56	100.00	264.32	221.25	2.00	29.56	-2,579.10	7,397.70	7,975.73	7,828.42	147.31	54.143		
16,100.00	7,142.87	100.00	264.32	223.77	2.00	29.56	-2,579.10	7,397.70	7,989.78	7,840.80	148.98	53.629		
16,200.00	7,143.18	100.00	264.32	226.28	2.00	29.56	-2,579.10	7,397.70	8,005.06	7,854.40	150.66	53.134		
16,300.00	7,143.49	100.00	264.32	228.80	2.00	29.56	-2,579.10	7,397.70	8,021.56	7,869.23	152.33	52.658		
16,400.00	7,143.80	100.00	264.32	231.31	2.00	29.56	-2,579.10	7,397.70	8,039.27	7,885.26	154.01	52.200		
16,500.00	7,144.11	100.00	264.32	233.83	2.00	29.56	-2,579.10	7,397.70	8,058.18	7,902.49	155.68	51.760		
16,600.00	7,144.42	100.00	264.32	236.34	2.00	29.56	-2,579.10	7,397.70	8,078.28	7,920.92	157.36	51.336		
16,700.00	7,144.73	100.00	264.32	238.86	2.00	29.56	-2,579.10	7,397.70	8,099.57	7,940.54	159.04	50.929		
16,800.00	7,145.05	100.00	264.32	241.37	2.00	29.56	-2,579.10	7,397.70	8,122.04	7,961.33	160.71	50.538		
16,900.00	7,145.36	100.00	264.32	243.89	2.00	29.56	-2,579.10	7,397.70	8,145.67	7,983.28	162.39	50.162		
17,000.00	7,145.67	100.00	264.32	246.41	2.00	29.56	-2,579.10	7,397.70	8,170.45	8,006.39	164.06	49.801		
17,100.00	7,145.98	100.00	264.32	248.93	2.00	29.56	-2,579.10	7,397.70	8,196.38	8,030.65	165.74	49.454		
17,200.00	7,146.29	100.00	264.32	251.44	2.00	29.56	-2,579.10	7,397.70	8,223.45	8,056.04	167.41	49.121		
17,300.00	7,146.60	100.00	264.32	253.96	2.00	29.56	-2,579.10	7,397.70	8,251.64	8,082.55	169.09	48.801		
17,400.00	7,146.91	100.00	264.32	256.48	2.00	29.56	-2,579.10	7,397.70	8,280.94	8,110.17	170.76	48.494		
17,430.36	7,147.00	100.00	264.32	257.24	2.00	29.56	-2,579.10	7,397.70	8,290.05	8,118.78	171.27	48.403 SF		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	11.65	0.00	0.00	78.12	742.58	3,531.36	3,608.61					
100.00	100.00	88.35	100.00	0.08	1.77	78.12	742.58	3,531.36	3,608.59	3,606.74	1.85	1,949.209		
200.00	200.00	188.35	200.00	0.31	5.53	78.12	742.58	3,531.36	3,608.59	3,602.75	5.84	617.586		
300.00	300.00	288.35	300.00	0.53	9.53	78.12	742.58	3,531.36	3,608.59	3,598.52	10.07	358.428		
400.00	400.00	388.35	400.00	0.76	13.53	78.12	742.58	3,531.36	3,608.59	3,594.30	14.29	252.480		
500.00	500.00	488.35	500.00	0.98	17.53	78.12	742.58	3,531.36	3,608.59	3,590.07	18.52	194.876		
600.00	600.00	588.35	600.00	1.21	21.53	78.12	742.58	3,531.36	3,608.59	3,585.85	22.74	158.674		
700.00	700.00	688.35	700.00	1.43	25.53	78.12	742.58	3,531.36	3,608.59	3,581.62	26.97	133.816		
800.00	800.00	788.35	800.00	1.66	29.53	78.12	742.58	3,531.36	3,608.59	3,577.40	31.19	115.691		
900.00	900.00	888.35	900.00	1.88	33.53	78.12	742.58	3,531.36	3,608.59	3,573.17	35.42	101.890		
1,000.00	1,000.00	988.35	1,000.00	2.11	37.53	78.12	742.58	3,531.36	3,608.59	3,568.95	39.64	91.031 CC		
1,100.00	1,099.98	1,088.33	1,099.98	2.33	41.53	101.76	742.58	3,531.36	3,608.95	3,565.08	43.86	82.279		
1,200.00	1,199.84	1,188.19	1,199.84	2.56	45.53	101.82	742.58	3,531.36	3,610.02	3,561.94	48.08	75.090		
1,300.00	1,299.45	1,287.80	1,299.45	2.79	49.51	101.92	742.58	3,531.36	3,611.82	3,559.53	52.28	69.081		
1,400.00	1,398.70	1,387.05	1,398.70	3.03	53.48	102.06	742.58	3,531.36	3,614.37	3,557.88	56.49	63.986		
1,500.00	1,497.47	1,485.82	1,497.47	3.30	57.43	102.23	742.58	3,531.36	3,617.70	3,557.01	60.69	59.611		
1,600.00	1,595.62	1,583.97	1,595.62	3.61	61.36	102.44	742.58	3,531.36	3,621.85	3,556.96	64.89	55.814 ES		
1,700.00	1,693.06	1,681.41	1,693.06	3.95	65.26	102.68	742.58	3,531.36	3,626.87	3,557.77	69.10	52.489		
1,800.00	1,789.64	1,777.99	1,789.64	4.35	69.12	102.95	742.58	3,531.36	3,632.80	3,559.49	73.31	49.556		
1,900.00	1,885.30	1,873.65	1,885.30	4.80	72.95	103.28	742.58	3,531.36	3,639.69	3,562.16	77.53	46.946		
2,000.00	1,980.64	1,968.99	1,980.64	5.29	76.76	103.72	742.58	3,531.36	3,647.06	3,565.26	81.80	44.587		
2,100.00	2,075.99	2,064.34	2,075.99	5.80	80.57	104.16	742.58	3,531.36	3,654.65	3,568.57	86.08	42.457		
2,200.00	2,171.34	2,159.69	2,171.34	6.33	84.39	104.60	742.58	3,531.36	3,662.48	3,572.10	90.37	40.525		
2,300.00	2,266.68	2,255.03	2,266.68	6.87	88.20	105.03	742.58	3,531.36	3,670.54	3,575.86	94.68	38.768		
2,400.00	2,362.03	2,350.38	2,362.03	7.41	92.02	105.47	742.58	3,531.36	3,678.83	3,579.84	98.99	37.164		
2,500.00	2,457.38	2,445.73	2,457.38	7.97	95.83	105.90	742.58	3,531.36	3,687.34	3,584.04	103.30	35.694		
2,600.00	2,552.72	2,541.07	2,552.72	8.53	99.64	106.33	742.58	3,531.36	3,696.08	3,588.46	107.62	34.344		
2,700.00	2,648.07	2,636.42	2,648.07	9.10	103.46	106.76	742.58	3,531.36	3,705.05	3,593.11	111.94	33.099		
2,800.00	2,743.42	2,731.77	2,743.42	9.67	107.27	107.18	742.58	3,531.36	3,714.24	3,597.98	116.26	31.949		
2,900.00	2,838.77	2,827.12	2,838.77	10.24	111.08	107.61	742.58	3,531.36	3,723.65	3,603.08	120.57	30.883		
3,000.00	2,934.11	2,922.46	2,934.11	10.82	114.90	108.03	742.58	3,531.36	3,733.28	3,608.39	124.89	29.893		
3,100.00	3,029.46	3,017.81	3,029.46	11.40	118.71	108.45	742.58	3,531.36	3,743.13	3,613.93	129.20	28.971		
3,200.00	3,124.81	3,113.16	3,124.81	11.98	122.53	108.87	742.58	3,531.36	3,753.20	3,619.68	133.52	28.111		
3,300.00	3,220.15	3,208.50	3,220.15	12.56	126.34	109.29	742.58	3,531.36	3,763.48	3,625.65	137.83	27.306		
3,400.00	3,315.50	3,303.85	3,315.50	13.14	130.15	109.70	742.58	3,531.36	3,773.97	3,631.84	142.13	26.552		
3,500.00	3,410.85	3,399.20	3,410.85	13.73	133.97	110.11	742.58	3,531.36	3,784.67	3,638.24	146.44	25.845		
3,600.00	3,506.19	3,441.00	3,452.65	14.32	135.64	110.29	742.58	3,531.36	3,795.97	3,647.33	148.64	25.539		
3,700.00	3,601.54	3,441.00	3,452.65	14.91	135.64	110.29	742.58	3,531.36	3,809.62	3,660.42	149.20	25.534 SF		
3,800.00	3,696.89	3,441.00	3,452.65	15.50	135.64	110.29	742.58	3,531.36	3,825.84	3,676.08	149.76	25.547		
3,900.00	3,792.24	3,441.00	3,452.65	16.09	135.64	110.29	742.58	3,531.36	3,844.59	3,694.27	150.32	25.576		
4,000.00	3,887.58	3,441.00	3,452.65	16.68	135.64	110.29	742.58	3,531.36	3,865.84	3,714.96	150.88	25.622		
4,100.00	3,982.93	3,441.00	3,452.65	17.27	135.64	110.29	742.58	3,531.36	3,889.55	3,738.11	151.44	25.683		
4,200.00	4,078.28	3,441.00	3,452.65	17.86	135.64	110.29	742.58	3,531.36	3,915.66	3,763.66	152.01	25.760		
4,300.00	4,173.62	3,441.00	3,452.65	18.45	135.64	110.29	742.58	3,531.36	3,944.14	3,791.58	152.57	25.852		
4,400.00	4,268.97	3,441.00	3,452.65	19.05	135.64	110.29	742.58	3,531.36	3,974.94	3,821.80	153.13	25.957		
4,500.00	4,364.32	3,441.00	3,452.65	19.64	135.64	110.29	742.58	3,531.36	4,007.99	3,854.29	153.70	26.077		
4,600.00	4,459.67	3,441.00	3,452.65	20.23	135.64	110.29	742.58	3,531.36	4,043.24	3,888.98	154.26	26.210		
4,700.00	4,555.01	3,441.00	3,452.65	20.83	135.64	110.29	742.58	3,531.36	4,080.64	3,925.82	154.83	26.356		
4,800.00	4,650.36	3,441.00	3,452.65	21.42	135.64	110.29	742.58	3,531.36	4,120.13	3,964.74	155.39	26.514		
4,900.00	4,745.71	3,441.00	3,452.65	22.02	135.64	110.29	742.58	3,531.36	4,161.65	4,005.69	155.96	26.684		
5,000.00	4,841.05	3,441.00	3,452.65	22.61	135.64	110.29	742.58	3,531.36	4,205.14	4,048.61	156.53	26.865		
5,100.00	4,936.40	3,441.00	3,452.65	23.21	135.64	110.29	742.58	3,531.36	4,250.53	4,093.44	157.09	27.057		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458 - OH - OH													Offset Site Error:
Survey Program: 100-UNKNOWN													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,031.75	3,441.00	3,452.65	23.80	135.64	110.29	742.58	3,531.36	4,297.78	4,140.12	157.66	27.260	
5,300.00	5,127.09	3,441.00	3,452.65	24.40	135.64	110.29	742.58	3,531.36	4,346.81	4,188.58	158.23	27.472	
5,400.00	5,222.44	3,441.00	3,452.65	25.00	135.64	110.29	742.58	3,531.36	4,397.56	4,238.77	158.80	27.693	
5,500.00	5,317.79	3,441.00	3,452.65	25.59	135.64	110.29	742.58	3,531.36	4,449.99	4,290.63	159.36	27.924	
5,600.00	5,413.14	3,441.00	3,452.65	26.19	135.64	110.29	742.58	3,531.36	4,504.03	4,344.10	159.93	28.162	
5,700.00	5,508.48	3,441.00	3,452.65	26.78	135.64	110.31	742.58	3,531.36	4,559.62	4,399.12	160.50	28.409	
5,800.00	5,604.35	3,441.00	3,452.65	27.24	135.64	111.59	742.58	3,531.36	4,616.18	4,455.31	160.87	28.694	
5,900.00	5,701.15	3,441.00	3,452.65	27.65	135.64	112.88	742.58	3,531.36	4,673.16	4,511.95	161.21	28.987	
6,000.00	5,798.77	3,441.00	3,452.65	28.02	135.64	114.16	742.58	3,531.36	4,730.47	4,568.96	161.51	29.289	
6,100.00	5,897.08	3,441.00	3,452.65	28.35	135.64	115.44	742.58	3,531.36	4,788.02	4,626.26	161.76	29.600	
6,200.00	5,995.98	3,441.00	3,452.65	28.63	135.64	116.70	742.58	3,531.36	4,845.74	4,683.80	161.94	29.922	
6,300.00	6,095.33	3,441.00	3,452.65	28.87	135.64	117.96	742.58	3,531.36	4,903.56	4,741.49	162.07	30.256	
6,400.00	6,195.01	3,441.00	3,452.65	29.06	135.64	119.21	742.58	3,531.36	4,961.40	4,799.27	162.12	30.602	
6,500.00	6,294.91	3,441.00	3,452.65	29.20	135.64	120.44	742.58	3,531.36	5,019.19	4,857.09	162.10	30.963	
6,600.00	6,394.89	3,441.00	3,452.65	29.30	135.64	7.70	742.58	3,531.36	5,076.58	4,914.63	161.95	31.347	
6,700.00	6,494.28	3,441.00	3,452.65	29.34	135.64	7.11	742.58	3,531.36	5,126.58	4,966.92	159.67	32.108	
6,800.00	6,591.26	3,441.00	3,452.65	29.31	135.64	6.70	742.58	3,531.36	5,165.77	5,011.49	154.28	33.483	
6,900.00	6,683.95	3,441.00	3,452.65	29.23	135.64	6.43	742.58	3,531.36	5,193.63	5,047.73	145.90	35.598	
7,000.00	6,770.55	3,441.00	3,452.65	29.09	135.64	6.28	742.58	3,531.36	5,209.80	5,075.09	134.71	38.675	
7,100.00	6,849.36	3,441.00	3,452.65	28.92	135.64	6.25	742.58	3,531.36	5,214.07	5,093.11	120.96	43.106	
7,200.00	6,918.86	3,441.00	3,452.65	28.73	135.64	6.31	742.58	3,531.36	5,206.40	5,101.41	104.99	49.591	
7,300.00	6,977.70	3,441.00	3,452.65	28.54	135.64	6.49	742.58	3,531.36	5,186.88	5,099.65	87.22	59.468	
7,400.00	7,027.98	3,441.00	3,452.65	28.35	135.64	6.60	742.58	3,531.36	5,159.24	5,079.33	79.91	64.560	
7,500.00	7,070.01	3,441.00	3,452.65	28.19	135.64	6.94	742.58	3,531.36	5,124.63	5,063.82	60.81	84.274	
7,600.00	7,099.01	3,441.00	3,452.65	28.06	135.64	7.46	742.58	3,531.36	5,078.97	5,036.48	42.49	119.534	
7,700.00	7,114.42	3,441.00	3,452.65	27.97	135.64	8.20	742.58	3,531.36	5,022.88	4,993.76	29.12	172.474	
7,800.00	7,117.13	3,441.00	3,452.65	28.00	135.64	8.78	742.58	3,531.36	4,957.97	4,929.93	28.04	176.830	
7,900.00	7,117.44	3,441.00	3,452.65	28.26	135.64	8.78	742.58	3,531.36	4,892.40	4,863.49	28.91	169.240	
8,000.00	7,117.75	3,441.00	3,452.65	28.94	135.64	8.78	742.58	3,531.36	4,828.00	4,798.22	29.78	162.095	
8,100.00	7,118.06	3,441.00	3,452.65	30.16	135.64	8.78	742.58	3,531.36	4,764.84	4,734.17	30.67	155.374	
8,200.00	7,118.37	3,441.00	3,452.65	31.76	135.64	8.78	742.58	3,531.36	4,702.95	4,671.40	31.55	149.051	
8,300.00	7,118.68	3,441.00	3,452.65	33.58	135.64	8.78	742.58	3,531.36	4,642.39	4,609.95	32.44	143.101	
8,400.00	7,118.99	3,441.00	3,452.65	35.53	135.64	8.78	742.58	3,531.36	4,583.21	4,549.88	33.33	137.501	
8,500.00	7,119.30	3,441.00	3,452.65	37.56	135.64	8.78	742.58	3,531.36	4,525.47	4,491.25	34.23	132.226	
8,600.00	7,119.61	3,441.00	3,452.65	39.66	135.64	8.78	742.58	3,531.36	4,469.22	4,434.10	35.12	127.257	
8,700.00	7,119.92	3,441.00	3,452.65	41.80	135.64	8.78	742.58	3,531.36	4,414.52	4,378.51	36.02	122.573	
8,800.00	7,120.23	3,441.00	3,452.65	43.99	135.64	8.78	742.58	3,531.36	4,361.43	4,324.52	36.91	118.166	
8,900.00	7,120.54	3,441.00	3,452.65	46.22	135.64	8.78	742.58	3,531.36	4,310.00	4,272.19	37.81	113.991	
9,000.00	7,120.85	3,441.00	3,452.65	48.47	135.64	8.78	742.58	3,531.36	4,260.30	4,221.60	38.71	110.061	
9,100.00	7,121.16	3,441.00	3,452.65	50.75	135.64	8.78	742.58	3,531.36	4,212.39	4,172.79	39.61	106.353	
9,200.00	7,121.47	3,441.00	3,452.65	53.05	135.64	8.78	742.58	3,531.36	4,166.33	4,125.82	40.51	102.853	
9,300.00	7,121.78	3,441.00	3,452.65	55.37	135.64	8.78	742.58	3,531.36	4,122.18	4,080.77	41.41	99.551	
9,400.00	7,122.09	3,441.00	3,452.65	57.71	135.64	8.78	742.58	3,531.36	4,080.00	4,037.70	42.31	96.435	
9,500.00	7,122.40	3,441.00	3,452.65	60.06	135.64	8.78	742.58	3,531.36	4,039.86	3,996.65	43.21	93.495	
9,600.00	7,122.71	3,441.00	3,452.65	62.43	135.64	8.78	742.58	3,531.36	4,001.82	3,957.71	44.11	90.722	
9,700.00	7,123.02	3,441.00	3,452.65	64.80	135.64	8.78	742.58	3,531.36	3,965.93	3,920.92	45.01	88.108	
9,800.00	7,123.33	3,441.00	3,452.65	67.19	135.64	8.78	742.58	3,531.36	3,932.26	3,886.35	45.91	85.643	
9,900.00	7,123.65	3,441.00	3,452.65	69.59	135.64	8.78	742.58	3,531.36	3,900.86	3,854.05	46.82	83.322	
10,000.00	7,123.96	3,441.00	3,452.65	71.99	135.64	8.78	742.58	3,531.36	3,871.79	3,824.08	47.72	81.138	
10,100.00	7,124.27	3,441.00	3,452.65	74.40	135.64	8.78	742.58	3,531.36	3,845.11	3,796.49	48.62	79.083	
10,200.00	7,124.58	3,441.00	3,452.65	76.82	135.64	8.78	742.58	3,531.36	3,820.85	3,771.33	49.52	77.151	
10,300.00	7,124.89	3,441.00	3,452.65	79.25	135.64	8.78	742.58	3,531.36	3,799.08	3,748.65	50.43	75.338	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
10,400.00	7,125.20	3,441.00	3,452.65	81.68	135.64	8.78	742.58	3,531.36	3,779.82	3,728.49	51.33	73.637	
10,500.00	7,125.51	3,441.00	3,452.65	84.12	135.64	8.78	742.58	3,531.36	3,763.12	3,710.89	52.23	72.044	
10,600.00	7,125.82	3,441.00	3,452.65	86.56	135.64	8.78	742.58	3,531.36	3,749.02	3,695.88	53.14	70.554	
10,700.00	7,126.13	3,441.00	3,452.65	89.01	135.64	8.78	742.58	3,531.36	3,737.54	3,683.50	54.04	69.162	
10,800.00	7,126.44	3,441.00	3,452.65	91.46	135.64	8.78	742.58	3,531.36	3,728.71	3,673.77	54.94	67.864	
10,900.00	7,126.75	3,441.00	3,452.65	93.91	135.64	8.78	742.58	3,531.36	3,722.54	3,666.70	55.85	66.656	
11,000.00	7,127.06	3,441.00	3,452.65	96.37	135.64	8.78	742.58	3,531.36	3,719.06	3,662.31	56.75	65.533	
11,079.70	7,127.30	3,441.00	3,452.65	98.33	135.64	8.78	742.58	3,531.36	3,718.20	3,660.71	57.49	64.677	
11,100.00	7,127.37	3,441.00	3,452.65	98.83	135.64	8.78	742.58	3,531.36	3,718.26	3,660.60	57.65	64.492	
11,200.00	7,127.68	3,441.00	3,452.65	101.30	135.64	8.78	742.58	3,531.36	3,720.15	3,661.59	58.56	63.529	
11,300.00	7,127.99	3,441.00	3,452.65	103.77	135.64	8.78	742.58	3,531.36	3,724.72	3,665.26	59.46	62.640	
11,400.00	7,128.30	3,441.00	3,452.65	106.24	135.64	8.78	742.58	3,531.36	3,731.97	3,671.61	60.37	61.822	
11,500.00	7,128.61	3,441.00	3,452.65	108.71	135.64	8.78	742.58	3,531.36	3,741.88	3,680.61	61.27	61.071	
11,600.00	7,128.92	3,441.00	3,452.65	111.19	135.64	8.78	742.58	3,531.36	3,754.43	3,692.26	62.17	60.385	
11,700.00	7,129.23	3,441.00	3,452.65	113.66	135.64	8.78	742.58	3,531.36	3,769.59	3,706.51	63.08	59.760	
11,800.00	7,129.54	3,441.00	3,452.65	116.14	135.64	8.78	742.58	3,531.36	3,787.33	3,723.35	63.98	59.193	
11,900.00	7,129.85	3,441.00	3,452.65	118.62	135.64	8.78	742.58	3,531.36	3,807.61	3,742.73	64.89	58.680	
12,000.00	7,130.16	3,441.00	3,452.65	121.11	135.64	8.78	742.58	3,531.36	3,830.40	3,764.61	65.79	58.220	
12,100.00	7,130.47	3,441.00	3,452.65	123.59	135.64	8.78	742.58	3,531.36	3,855.65	3,788.96	66.70	57.809	
12,200.00	7,130.78	3,441.00	3,452.65	126.08	135.64	8.78	742.58	3,531.36	3,883.31	3,815.71	67.60	57.445	
12,300.00	7,131.09	3,441.00	3,452.65	128.57	135.64	8.78	742.58	3,531.36	3,913.33	3,844.83	68.50	57.125	
12,400.00	7,131.40	3,441.00	3,452.65	131.06	135.64	8.78	742.58	3,531.36	3,945.66	3,876.25	69.41	56.846	
12,500.00	7,131.71	3,441.00	3,452.65	133.55	135.64	8.78	742.58	3,531.36	3,980.24	3,909.92	70.31	56.607	
12,600.00	7,132.02	3,441.00	3,452.65	136.04	135.64	8.78	742.58	3,531.36	4,017.01	3,945.79	71.22	56.404	
12,700.00	7,132.33	3,441.00	3,452.65	138.54	135.64	8.78	742.58	3,531.36	4,055.91	3,983.79	72.12	56.236	
12,800.00	7,132.64	3,441.00	3,452.65	141.03	135.64	8.78	742.58	3,531.36	4,096.88	4,023.86	73.03	56.100	
12,900.00	7,132.95	3,441.00	3,452.65	143.53	135.64	8.78	742.58	3,531.36	4,139.87	4,065.94	73.93	55.995	
13,000.00	7,133.26	3,441.00	3,452.65	146.02	135.64	8.78	742.58	3,531.36	4,184.80	4,109.97	74.84	55.919	
13,100.00	7,133.57	3,441.00	3,452.65	148.52	135.64	8.78	742.58	3,531.36	4,231.62	4,155.88	75.74	55.869	
13,200.00	7,133.88	3,441.00	3,452.65	151.02	135.64	8.78	742.58	3,531.36	4,280.27	4,203.62	76.65	55.844	
13,300.00	7,134.19	3,441.00	3,452.65	153.52	135.64	8.78	742.58	3,531.36	4,330.68	4,253.13	77.55	55.843	
13,400.00	7,134.50	3,441.00	3,452.65	156.02	135.64	8.78	742.58	3,531.36	4,382.79	4,304.33	78.46	55.863	
13,500.00	7,134.81	3,441.00	3,452.65	158.52	135.64	8.78	742.58	3,531.36	4,436.54	4,357.18	79.36	55.904	
13,600.00	7,135.12	3,441.00	3,452.65	161.03	135.64	8.78	742.58	3,531.36	4,491.88	4,411.61	80.27	55.963	
13,700.00	7,135.43	3,441.00	3,452.65	163.53	135.64	8.78	742.58	3,531.36	4,548.74	4,467.57	81.17	56.040	
13,800.00	7,135.74	3,441.00	3,452.65	166.03	135.64	8.78	742.58	3,531.36	4,607.07	4,524.99	82.07	56.132	
13,900.00	7,136.05	3,441.00	3,452.65	168.54	135.64	8.78	742.58	3,531.36	4,666.81	4,583.83	82.98	56.240	
14,000.00	7,136.36	3,441.00	3,452.65	171.04	135.64	8.78	742.58	3,531.36	4,727.92	4,644.03	83.88	56.362	
14,100.00	7,136.67	3,441.00	3,452.65	173.55	135.64	8.78	742.58	3,531.36	4,790.33	4,705.54	84.79	56.497	
14,200.00	7,136.98	3,441.00	3,452.65	176.05	135.64	8.78	742.58	3,531.36	4,854.00	4,768.30	85.69	56.643	
14,300.00	7,137.29	3,441.00	3,452.65	178.56	135.64	8.78	742.58	3,531.36	4,918.88	4,832.28	86.60	56.801	
14,400.00	7,137.60	3,441.00	3,452.65	181.07	135.64	8.78	742.58	3,531.36	4,984.92	4,897.42	87.50	56.968	
14,500.00	7,137.91	3,441.00	3,452.65	183.58	135.64	8.78	742.58	3,531.36	5,052.08	4,963.67	88.41	57.144	
14,600.00	7,138.22	3,441.00	3,452.65	186.09	135.64	8.78	742.58	3,531.36	5,120.31	5,030.99	89.31	57.329	
14,700.00	7,138.53	3,441.00	3,452.65	188.59	135.64	8.78	742.58	3,531.36	5,189.57	5,099.35	90.22	57.522	
14,800.00	7,138.84	3,441.00	3,452.65	191.10	135.64	8.78	742.58	3,531.36	5,259.82	5,168.69	91.12	57.722	
14,900.00	7,139.15	3,441.00	3,452.65	193.61	135.64	8.78	742.58	3,531.36	5,331.01	5,238.99	92.03	57.928	
15,000.00	7,139.46	3,441.00	3,452.65	196.13	135.64	8.78	742.58	3,531.36	5,403.13	5,310.19	92.93	58.140	
15,100.00	7,139.77	3,441.00	3,452.65	198.64	135.64	8.78	742.58	3,531.36	5,476.12	5,382.28	93.84	58.357	
15,200.00	7,140.08	3,441.00	3,452.65	201.15	135.64	8.78	742.58	3,531.36	5,549.95	5,455.20	94.74	58.578	
15,300.00	7,140.39	3,441.00	3,452.65	203.66	135.64	8.78	742.58	3,531.36	5,624.59	5,528.94	95.65	58.805	
15,400.00	7,140.70	3,441.00	3,452.65	206.17	135.64	8.78	742.58	3,531.36	5,700.00	5,603.45	96.55	59.034	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
15,500.00	7,141.01	3,441.00	3,452.65	208.68	135.64	8.78	742.58	3,531.36	5,776.16	5,678.71	97.46	59.268		
15,600.00	7,141.32	3,441.00	3,452.65	211.20	135.64	8.78	742.58	3,531.36	5,853.05	5,754.68	98.36	59.504		
15,700.00	7,141.63	3,441.00	3,452.65	213.71	135.64	8.78	742.58	3,531.36	5,930.62	5,831.35	99.27	59.743		
15,800.00	7,141.94	3,441.00	3,452.65	216.22	135.64	8.78	742.58	3,531.36	6,008.85	5,908.67	100.17	59.984		
15,900.00	7,142.25	3,441.00	3,452.65	218.74	135.64	8.78	742.58	3,531.36	6,087.72	5,986.64	101.08	60.227		
16,000.00	7,142.56	3,441.00	3,452.65	221.25	135.64	8.78	742.58	3,531.36	6,167.20	6,065.22	101.98	60.472		
16,100.00	7,142.87	3,441.00	3,452.65	223.77	135.64	8.78	742.58	3,531.36	6,247.27	6,144.39	102.89	60.719		
16,200.00	7,143.18	3,441.00	3,452.65	226.28	135.64	8.78	742.58	3,531.36	6,327.91	6,224.12	103.79	60.966		
16,300.00	7,143.49	3,441.00	3,452.65	228.80	135.64	8.78	742.58	3,531.36	6,409.10	6,304.40	104.70	61.214		
16,400.00	7,143.80	3,441.00	3,452.65	231.31	135.64	8.78	742.58	3,531.36	6,490.81	6,385.21	105.60	61.463		
16,500.00	7,144.11	3,441.00	3,452.65	233.83	135.64	8.78	742.58	3,531.36	6,573.03	6,466.52	106.51	61.713		
16,600.00	7,144.42	3,441.00	3,452.65	236.34	135.64	8.78	742.58	3,531.36	6,655.73	6,548.32	107.41	61.963		
16,700.00	7,144.73	3,441.00	3,452.65	238.86	135.64	8.78	742.58	3,531.36	6,738.90	6,630.58	108.32	62.213		
16,800.00	7,145.05	3,441.00	3,452.65	241.37	135.64	8.78	742.58	3,531.36	6,822.53	6,713.30	109.22	62.463		
16,900.00	7,145.36	3,441.00	3,452.65	243.89	135.64	8.78	742.58	3,531.36	6,906.59	6,796.46	110.13	62.713		
17,000.00	7,145.67	3,441.00	3,452.65	246.41	135.64	8.78	742.58	3,531.36	6,991.06	6,880.03	111.04	62.963		
17,100.00	7,145.98	3,441.00	3,452.65	248.93	135.64	8.78	742.58	3,531.36	7,075.95	6,964.01	111.94	63.212		
17,200.00	7,146.29	3,441.00	3,452.65	251.44	135.64	8.78	742.58	3,531.36	7,161.22	7,048.38	112.85	63.461		
17,300.00	7,146.60	3,441.00	3,452.65	253.96	135.64	8.78	742.58	3,531.36	7,246.87	7,133.12	113.75	63.709		
17,400.00	7,146.91	3,441.00	3,452.65	256.48	135.64	8.78	742.58	3,531.36	7,332.89	7,218.23	114.66	63.956		
17,430.36	7,147.00	3,441.00	3,452.65	257.24	135.64	8.78	742.58	3,531.36	7,359.07	7,244.14	114.93	64.031		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	44.17	0.00	0.00	127.37	-2,371.27	3,104.45	3,906.72					
100.00	100.00	55.83	100.00	0.08	1.12	127.37	-2,371.27	3,104.45	3,906.47	3,905.27	1.20	3,252.749		
200.00	200.00	155.83	200.00	0.31	4.23	127.37	-2,371.27	3,104.45	3,906.47	3,901.93	4.54	860.030		
300.00	300.00	255.83	300.00	0.53	8.23	127.37	-2,371.27	3,104.45	3,906.47	3,897.71	8.77	445.587		
400.00	400.00	355.83	400.00	0.76	12.23	127.37	-2,371.27	3,104.45	3,906.47	3,893.48	12.99	300.688		
500.00	500.00	455.83	500.00	0.98	16.23	127.37	-2,371.27	3,104.45	3,906.47	3,889.26	17.22	226.902		
600.00	600.00	555.83	600.00	1.21	20.23	127.37	-2,371.27	3,104.45	3,906.47	3,885.03	21.44	182.194		
700.00	700.00	655.83	700.00	1.43	24.23	127.37	-2,371.27	3,104.45	3,906.47	3,880.81	25.67	152.204		
800.00	800.00	755.83	800.00	1.66	28.23	127.37	-2,371.27	3,104.45	3,906.47	3,876.58	29.89	130.691		
900.00	900.00	855.83	900.00	1.88	32.23	127.37	-2,371.27	3,104.45	3,906.47	3,872.36	34.12	114.507		
1,000.00	1,000.00	955.83	1,000.00	2.11	36.23	127.37	-2,371.27	3,104.45	3,906.47	3,868.13	38.34	101.889 CC		
1,100.00	1,099.98	1,055.81	1,099.98	2.33	40.23	150.99	-2,371.27	3,104.45	3,908.00	3,865.45	42.54	91.857 ES		
1,200.00	1,199.84	1,155.67	1,199.84	2.56	44.23	150.98	-2,371.27	3,104.45	3,912.58	3,865.88	46.70	83.785		
1,300.00	1,299.45	1,255.28	1,299.45	2.79	48.21	150.97	-2,371.27	3,104.45	3,920.21	3,869.42	50.79	77.189		
1,400.00	1,398.70	1,354.53	1,398.70	3.03	52.18	150.95	-2,371.27	3,104.45	3,930.88	3,876.08	54.80	71.732		
1,500.00	1,497.47	1,453.30	1,497.47	3.30	56.13	150.93	-2,371.27	3,104.45	3,944.59	3,885.87	58.72	67.175		
1,600.00	1,595.62	1,551.45	1,595.62	3.61	60.06	150.90	-2,371.27	3,104.45	3,961.34	3,898.80	62.54	63.340		
1,700.00	1,693.06	1,648.89	1,693.06	3.95	63.96	150.86	-2,371.27	3,104.45	3,981.11	3,914.86	66.25	60.093		
1,800.00	1,789.64	1,745.47	1,789.64	4.35	67.82	150.81	-2,371.27	3,104.45	4,003.89	3,934.05	69.84	57.333		
1,900.00	1,885.30	1,841.13	1,885.30	4.80	71.65	150.81	-2,371.27	3,104.45	4,029.59	3,956.17	73.42	54.883		
2,000.00	1,980.64	1,936.47	1,980.64	5.29	75.46	151.02	-2,371.27	3,104.45	4,056.23	3,978.82	77.41	52.402		
2,100.00	2,075.99	2,031.82	2,075.99	5.80	79.27	151.22	-2,371.27	3,104.45	4,082.91	4,001.51	81.40	50.160		
2,200.00	2,171.34	2,127.17	2,171.34	6.33	83.09	151.42	-2,371.27	3,104.45	4,109.64	4,024.24	85.40	48.124		
2,300.00	2,266.68	2,222.51	2,266.68	6.87	86.90	151.62	-2,371.27	3,104.45	4,136.42	4,047.02	89.40	46.268		
2,400.00	2,362.03	2,317.86	2,362.03	7.41	90.71	151.81	-2,371.27	3,104.45	4,163.24	4,069.83	93.41	44.570		
2,500.00	2,457.38	2,413.21	2,457.38	7.97	94.53	152.00	-2,371.27	3,104.45	4,190.11	4,092.69	97.42	43.011		
2,600.00	2,552.72	2,508.55	2,552.72	8.53	98.34	152.19	-2,371.27	3,104.45	4,217.03	4,115.59	101.43	41.575		
2,700.00	2,648.07	2,603.90	2,648.07	9.10	102.16	152.38	-2,371.27	3,104.45	4,243.98	4,138.54	105.45	40.248		
2,800.00	2,743.42	2,699.25	2,743.42	9.67	105.97	152.57	-2,371.27	3,104.45	4,270.98	4,161.52	109.46	39.018		
2,900.00	2,838.77	2,794.60	2,838.77	10.24	109.78	152.75	-2,371.27	3,104.45	4,298.02	4,184.55	113.48	37.876		
3,000.00	2,934.11	2,889.94	2,934.11	10.82	113.60	152.93	-2,371.27	3,104.45	4,325.11	4,207.61	117.49	36.812		
3,100.00	3,029.46	2,985.29	3,029.46	11.40	117.41	153.11	-2,371.27	3,104.45	4,352.23	4,230.72	121.51	35.819		
3,200.00	3,124.81	3,080.64	3,124.81	11.98	121.23	153.29	-2,371.27	3,104.45	4,379.39	4,253.87	125.52	34.890		
3,300.00	3,220.15	3,175.98	3,220.15	12.56	125.04	153.46	-2,371.27	3,104.45	4,406.59	4,277.06	129.54	34.018		
3,400.00	3,315.50	3,271.33	3,315.50	13.14	128.85	153.64	-2,371.27	3,104.45	4,433.83	4,300.28	133.55	33.200		
3,500.00	3,410.85	3,366.68	3,410.85	13.73	132.67	153.81	-2,371.27	3,104.45	4,461.11	4,323.55	137.56	32.430		
3,600.00	3,506.19	3,462.02	3,506.19	14.32	136.48	153.97	-2,371.27	3,104.45	4,488.42	4,346.85	141.57	31.704		
3,700.00	3,601.54	3,470.00	3,514.17	14.91	136.80	153.99	-2,371.27	3,104.45	4,516.62	4,374.37	142.25	31.752		
3,800.00	3,696.89	3,470.00	3,514.17	15.50	136.80	153.99	-2,371.27	3,104.45	4,544.83	4,404.22	142.62	31.882		
3,900.00	3,792.24	3,470.00	3,514.17	16.09	136.80	153.99	-2,371.27	3,104.45	4,573.03	4,436.04	142.99	32.024		
4,000.00	3,887.58	3,470.00	3,514.17	16.68	136.80	153.99	-2,371.27	3,104.45	4,601.17	4,468.81	143.36	32.180		
4,100.00	3,982.93	3,470.00	3,514.17	17.27	136.80	153.99	-2,371.27	3,104.45	4,629.21	4,500.48	143.73	32.347		
4,200.00	4,078.28	3,470.00	3,514.17	17.86	136.80	153.99	-2,371.27	3,104.45	4,657.11	4,532.01	144.10	32.527		
4,300.00	4,173.62	3,470.00	3,514.17	18.45	136.80	153.99	-2,371.27	3,104.45	4,684.82	4,562.35	144.47	32.718		
4,400.00	4,268.97	3,470.00	3,514.17	19.05	136.80	153.99	-2,371.27	3,104.45	4,712.30	4,592.45	144.85	32.920		
4,500.00	4,364.32	3,470.00	3,514.17	19.64	136.80	153.99	-2,371.27	3,104.45	4,739.50	4,622.28	145.22	33.133		
4,600.00	4,459.67	3,470.00	3,514.17	20.23	136.80	153.99	-2,371.27	3,104.45	4,766.37	4,651.78	145.59	33.356		
4,700.00	4,555.01	3,470.00	3,514.17	20.83	136.80	153.99	-2,371.27	3,104.45	4,792.87	4,681.91	145.97	33.589		
4,800.00	4,650.36	3,470.00	3,514.17	21.42	136.80	153.99	-2,371.27	3,104.45	4,818.96	4,712.62	146.34	33.831		
4,900.00	4,745.71	3,470.00	3,514.17	22.02	136.80	153.99	-2,371.27	3,104.45	4,844.58	4,743.87	146.72	34.083		
5,000.00	4,841.05	3,470.00	3,514.17	22.61	136.80	153.99	-2,371.27	3,104.45	4,869.70	4,774.61	147.09	34.344		
5,100.00	4,936.40	3,470.00	3,514.17	23.21	136.80	153.99	-2,371.27	3,104.45	4,894.26	4,804.79	147.47	34.613		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,031.75	3,470.00	3,514.17	23.80	136.80	153.99	-2,371.27	3,104.45	5,158.23	5,010.39	147.84	34.890		
5,300.00	5,127.09	3,470.00	3,514.17	24.40	136.80	153.99	-2,371.27	3,104.45	5,213.55	5,065.34	148.22	35.175		
5,400.00	5,222.44	3,470.00	3,514.17	25.00	136.80	153.99	-2,371.27	3,104.45	5,270.20	5,121.60	148.60	35.467		
5,500.00	5,317.79	3,470.00	3,514.17	25.59	136.80	153.99	-2,371.27	3,104.45	5,328.12	5,179.14	148.97	35.766		
5,600.00	5,413.14	3,470.00	3,514.17	26.19	136.80	153.99	-2,371.27	3,104.45	5,387.27	5,237.92	149.35	36.072		
5,700.00	5,508.48	3,470.00	3,514.17	26.78	136.80	154.00	-2,371.27	3,104.45	5,447.61	5,297.87	149.74	36.381		
5,800.00	5,604.35	3,470.00	3,514.17	27.24	136.80	154.65	-2,371.27	3,104.45	5,507.83	5,356.85	150.99	36.479		
5,900.00	5,701.15	3,470.00	3,514.17	27.65	136.80	155.27	-2,371.27	3,104.45	5,566.69	5,414.59	152.10	36.599		
6,000.00	5,798.77	3,470.00	3,514.17	28.02	136.80	155.85	-2,371.27	3,104.45	5,624.16	5,471.09	153.08	36.741		
6,100.00	5,897.08	3,470.00	3,514.17	28.35	136.80	156.40	-2,371.27	3,104.45	5,680.21	5,526.31	153.90	36.909		
6,200.00	5,995.98	3,470.00	3,514.17	28.63	136.80	156.91	-2,371.27	3,104.45	5,734.82	5,580.26	154.57	37.103		
6,300.00	6,095.33	3,470.00	3,514.17	28.87	136.80	157.40	-2,371.27	3,104.45	5,787.96	5,632.89	155.07	37.325		
6,400.00	6,195.01	3,470.00	3,514.17	29.06	136.80	157.86	-2,371.27	3,104.45	5,839.61	5,684.20	155.41	37.576		
6,500.00	6,294.91	3,470.00	3,514.17	29.20	136.80	158.29	-2,371.27	3,104.45	5,889.75	5,734.17	155.58	37.858		
6,600.00	6,394.89	3,470.00	3,514.17	29.30	136.80	44.40	-2,371.27	3,104.45	5,938.18	5,782.56	155.62	38.158		
6,700.00	6,494.28	3,470.00	3,514.17	29.34	136.80	41.83	-2,371.27	3,104.45	5,980.72	5,826.10	154.61	38.682		
6,800.00	6,591.26	3,470.00	3,514.17	29.31	136.80	39.91	-2,371.27	3,104.45	6,015.09	5,863.54	151.55	39.691		
6,900.00	6,683.95	3,470.00	3,514.17	29.23	136.80	38.56	-2,371.27	3,104.45	6,040.77	5,894.34	146.42	41.256		
7,000.00	6,770.55	3,470.00	3,514.17	29.09	136.80	37.73	-2,371.27	3,104.45	6,057.37	5,917.89	139.48	43.427		
7,100.00	6,849.36	3,470.00	3,514.17	28.92	136.80	37.37	-2,371.27	3,104.45	6,064.65	5,933.43	131.22	46.216		
7,200.00	6,918.86	3,470.00	3,514.17	28.73	136.80	37.48	-2,371.27	3,104.45	6,062.49	5,939.90	122.59	49.453		
7,300.00	6,977.70	3,470.00	3,514.17	28.54	136.80	38.05	-2,371.27	3,104.45	6,050.94	5,936.32	114.62	52.793		
7,400.00	7,027.98	3,470.00	3,514.17	28.35	136.80	38.41	-2,371.27	3,104.45	6,032.98	5,920.54	112.44	53.654		
7,500.00	7,070.01	3,470.00	3,514.17	28.19	136.80	39.62	-2,371.27	3,104.45	6,009.54	5,901.97	107.57	55.869		
7,600.00	7,099.01	3,470.00	3,514.17	28.06	136.80	41.39	-2,371.27	3,104.45	5,977.31	5,870.79	106.51	56.117		
7,700.00	7,114.42	3,470.00	3,514.17	27.97	136.80	43.79	-2,371.27	3,104.45	5,936.79	5,826.82	109.97	53.984		
7,800.00	7,117.13	3,470.00	3,514.17	28.00	136.80	45.54	-2,371.27	3,104.45	5,889.33	5,774.70	114.62	51.380		
7,900.00	7,117.44	3,470.00	3,514.17	28.26	136.80	45.54	-2,371.27	3,104.45	5,841.67	5,725.44	116.23	50.260		
8,000.00	7,117.75	3,470.00	3,514.17	28.94	136.80	45.54	-2,371.27	3,104.45	5,795.34	5,677.38	117.96	49.130		
8,100.00	7,118.06	3,470.00	3,514.17	30.16	136.80	45.54	-2,371.27	3,104.45	5,750.39	5,630.60	119.79	48.004		
8,200.00	7,118.37	3,470.00	3,514.17	31.76	136.80	45.54	-2,371.27	3,104.45	5,706.83	5,585.13	121.69	46.895		
8,300.00	7,118.68	3,470.00	3,514.17	33.58	136.80	45.54	-2,371.27	3,104.45	5,664.70	5,541.04	123.66	45.809		
8,400.00	7,118.99	3,470.00	3,514.17	35.53	136.80	45.54	-2,371.27	3,104.45	5,624.03	5,498.36	125.67	44.752		
8,500.00	7,119.30	3,470.00	3,514.17	37.56	136.80	45.54	-2,371.27	3,104.45	5,584.86	5,457.14	127.72	43.727		
8,600.00	7,119.61	3,470.00	3,514.17	39.66	136.80	45.54	-2,371.27	3,104.45	5,547.22	5,417.41	129.80	42.736		
8,700.00	7,119.92	3,470.00	3,514.17	41.80	136.80	45.54	-2,371.27	3,104.45	5,511.13	5,379.22	131.91	41.780		
8,800.00	7,120.23	3,470.00	3,514.17	43.99	136.80	45.54	-2,371.27	3,104.45	5,476.63	5,342.59	134.04	40.859		
8,900.00	7,120.54	3,470.00	3,514.17	46.22	136.80	45.54	-2,371.27	3,104.45	5,443.75	5,307.57	136.18	39.974		
9,000.00	7,120.85	3,470.00	3,514.17	48.47	136.80	45.54	-2,371.27	3,104.45	5,412.52	5,274.18	138.34	39.124		
9,100.00	7,121.16	3,470.00	3,514.17	50.75	136.80	45.54	-2,371.27	3,104.45	5,382.96	5,242.45	140.51	38.309		
9,200.00	7,121.47	3,470.00	3,514.17	53.05	136.80	45.54	-2,371.27	3,104.45	5,355.11	5,212.41	142.70	37.528		
9,300.00	7,121.78	3,470.00	3,514.17	55.37	136.80	45.54	-2,371.27	3,104.45	5,328.99	5,184.10	144.89	36.780		
9,400.00	7,122.09	3,470.00	3,514.17	57.71	136.80	45.54	-2,371.27	3,104.45	5,304.63	5,157.54	147.09	36.065		
9,500.00	7,122.40	3,470.00	3,514.17	60.06	136.80	45.54	-2,371.27	3,104.45	5,282.04	5,132.75	149.29	35.380		
9,600.00	7,122.71	3,470.00	3,514.17	62.43	136.80	45.54	-2,371.27	3,104.45	5,261.27	5,109.76	151.51	34.726		
9,700.00	7,123.02	3,470.00	3,514.17	64.80	136.80	45.54	-2,371.27	3,104.45	5,242.31	5,088.59	153.72	34.102		
9,800.00	7,123.33	3,470.00	3,514.17	67.19	136.80	45.54	-2,371.27	3,104.45	5,225.21	5,069.26	155.95	33.506		
9,900.00	7,123.65	3,470.00	3,514.17	69.59	136.80	45.54	-2,371.27	3,104.45	5,209.96	5,051.79	158.17	32.938		
10,000.00	7,123.96	3,470.00	3,514.17	71.99	136.80	45.54	-2,371.27	3,104.45	5,196.60	5,036.20	160.40	32.397		
10,100.00	7,124.27	3,470.00	3,514.17	74.40	136.80	45.54	-2,371.27	3,104.45	5,185.13	5,022.49	162.64	31.881		
10,200.00	7,124.58	3,470.00	3,514.17	76.82	136.80	45.54	-2,371.27	3,104.45	5,175.57	5,010.69	164.87	31.391		
10,300.00	7,124.89	3,470.00	3,514.17	79.25	136.80	45.54	-2,371.27	3,104.45	5,167.93	5,000.81	167.11	30.925		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	3,470.00	3,514.17	81.68	136.80	45.54	-2,371.27	3,104.45	5,162.21	4,992.85	169.36	30.481		
10,500.00	7,125.51	3,470.00	3,514.17	84.12	136.80	45.54	-2,371.27	3,104.45	5,158.42	4,986.82	171.60	30.061		
10,600.00	7,125.82	3,470.00	3,514.17	86.56	136.80	45.54	-2,371.27	3,104.45	5,156.57	4,982.73	173.85	29.662		
10,645.34	7,125.96	3,470.00	3,514.17	87.67	136.80	45.54	-2,371.27	3,104.45	5,156.37	4,981.29	175.09	29.450		
10,700.00	7,126.13	3,470.00	3,514.17	89.01	136.80	45.54	-2,371.27	3,104.45	5,156.66	4,980.57	176.09	29.283		
10,800.00	7,126.44	3,470.00	3,514.17	91.46	136.80	45.54	-2,371.27	3,104.45	5,158.69	4,980.35	178.34	28.925		
10,900.00	7,126.75	3,470.00	3,514.17	93.91	136.80	45.54	-2,371.27	3,104.45	5,162.66	4,982.06	180.60	28.587		
11,000.00	7,127.06	3,470.00	3,514.17	96.37	136.80	45.54	-2,371.27	3,104.45	5,168.56	4,985.71	182.85	28.267		
11,100.00	7,127.37	3,470.00	3,514.17	98.83	136.80	45.54	-2,371.27	3,104.45	5,176.38	4,991.28	185.10	27.965		
11,200.00	7,127.68	3,470.00	3,514.17	101.30	136.80	45.54	-2,371.27	3,104.45	5,186.12	4,998.76	187.36	27.680		
11,300.00	7,127.99	3,470.00	3,514.17	103.77	136.80	45.54	-2,371.27	3,104.45	5,197.77	5,008.15	189.61	27.412		
11,400.00	7,128.30	3,470.00	3,514.17	106.24	136.80	45.54	-2,371.27	3,104.45	5,211.31	5,019.43	191.87	27.160		
11,500.00	7,128.61	3,470.00	3,514.17	108.71	136.80	45.54	-2,371.27	3,104.45	5,226.72	5,032.59	194.13	26.924		
11,600.00	7,128.92	3,470.00	3,514.17	111.19	136.80	45.54	-2,371.27	3,104.45	5,244.00	5,047.61	196.39	26.702		
11,700.00	7,129.23	3,470.00	3,514.17	113.66	136.80	45.54	-2,371.27	3,104.45	5,263.13	5,064.48	198.65	26.494		
11,800.00	7,129.54	3,470.00	3,514.17	116.14	136.80	45.54	-2,371.27	3,104.45	5,284.07	5,083.16	200.91	26.300		
11,900.00	7,129.85	3,470.00	3,514.17	118.62	136.80	45.54	-2,371.27	3,104.45	5,306.82	5,103.65	203.17	26.120		
12,000.00	7,130.16	3,470.00	3,514.17	121.11	136.80	45.54	-2,371.27	3,104.45	5,331.35	5,125.91	205.44	25.951		
12,100.00	7,130.47	3,470.00	3,514.17	123.59	136.80	45.54	-2,371.27	3,104.45	5,357.63	5,149.93	207.70	25.795		
12,200.00	7,130.78	3,470.00	3,514.17	126.08	136.80	45.54	-2,371.27	3,104.45	5,385.64	5,175.68	209.96	25.650		
12,300.00	7,131.09	3,470.00	3,514.17	128.57	136.80	45.54	-2,371.27	3,104.45	5,415.36	5,203.13	212.23	25.517		
12,400.00	7,131.40	3,470.00	3,514.17	131.06	136.80	45.54	-2,371.27	3,104.45	5,446.74	5,232.25	214.49	25.394		
12,500.00	7,131.71	3,470.00	3,514.17	133.55	136.80	45.54	-2,371.27	3,104.45	5,479.78	5,263.02	216.76	25.281		
12,600.00	7,132.02	3,470.00	3,514.17	136.04	136.80	45.54	-2,371.27	3,104.45	5,514.43	5,295.40	219.02	25.177		
12,700.00	7,132.33	3,470.00	3,514.17	138.54	136.80	45.54	-2,371.27	3,104.45	5,550.66	5,329.37	221.29	25.083		
12,800.00	7,132.64	3,470.00	3,514.17	141.03	136.80	45.54	-2,371.27	3,104.45	5,588.45	5,364.89	223.56	24.998		
12,900.00	7,132.95	3,470.00	3,514.17	143.53	136.80	45.54	-2,371.27	3,104.45	5,627.76	5,401.94	225.82	24.921		
13,000.00	7,133.26	3,470.00	3,514.17	146.02	136.80	45.54	-2,371.27	3,104.45	5,668.56	5,440.47	228.09	24.852		
13,100.00	7,133.57	3,470.00	3,514.17	148.52	136.80	45.54	-2,371.27	3,104.45	5,710.83	5,480.47	230.36	24.791		
13,200.00	7,133.88	3,470.00	3,514.17	151.02	136.80	45.54	-2,371.27	3,104.45	5,754.52	5,521.89	232.63	24.737		
13,300.00	7,134.19	3,470.00	3,514.17	153.52	136.80	45.54	-2,371.27	3,104.45	5,799.60	5,564.71	234.90	24.690		
13,400.00	7,134.50	3,470.00	3,514.17	156.02	136.80	45.54	-2,371.27	3,104.45	5,846.05	5,608.89	237.16	24.650		
13,500.00	7,134.81	3,470.00	3,514.17	158.52	136.80	45.54	-2,371.27	3,104.45	5,893.83	5,654.40	239.43	24.616		
13,600.00	7,135.12	3,470.00	3,514.17	161.03	136.80	45.54	-2,371.27	3,104.45	5,942.91	5,701.21	241.70	24.588		
13,700.00	7,135.43	3,470.00	3,514.17	163.53	136.80	45.54	-2,371.27	3,104.45	5,993.26	5,749.28	243.97	24.565		
13,800.00	7,135.74	3,470.00	3,514.17	166.03	136.80	45.54	-2,371.27	3,104.45	6,044.84	5,798.59	246.24	24.548		
13,900.00	7,136.05	3,470.00	3,514.17	168.54	136.80	45.54	-2,371.27	3,104.45	6,097.62	5,849.11	248.51	24.536		
14,000.00	7,136.36	3,470.00	3,514.17	171.04	136.80	45.54	-2,371.27	3,104.45	6,151.58	5,900.80	250.78	24.529		
14,100.00	7,136.67	3,470.00	3,514.17	173.55	136.80	45.54	-2,371.27	3,104.45	6,206.68	5,953.62	253.05	24.527 SF		
14,200.00	7,136.98	3,470.00	3,514.17	176.05	136.80	45.54	-2,371.27	3,104.45	6,262.89	6,007.56	255.33	24.529		
14,300.00	7,137.29	3,470.00	3,514.17	178.56	136.80	45.54	-2,371.27	3,104.45	6,320.18	6,062.59	257.60	24.535		
14,400.00	7,137.60	3,470.00	3,514.17	181.07	136.80	45.54	-2,371.27	3,104.45	6,378.53	6,118.66	259.87	24.545		
14,500.00	7,137.91	3,470.00	3,514.17	183.58	136.80	45.54	-2,371.27	3,104.45	6,437.90	6,175.76	262.14	24.559		
14,600.00	7,138.22	3,470.00	3,514.17	186.09	136.80	45.54	-2,371.27	3,104.45	6,498.27	6,233.86	264.41	24.576		
14,700.00	7,138.53	3,470.00	3,514.17	188.59	136.80	45.54	-2,371.27	3,104.45	6,559.61	6,292.92	266.68	24.597		
14,800.00	7,138.84	3,470.00	3,514.17	191.10	136.80	45.54	-2,371.27	3,104.45	6,621.89	6,352.93	268.96	24.621		
14,900.00	7,139.15	3,470.00	3,514.17	193.61	136.80	45.54	-2,371.27	3,104.45	6,685.08	6,413.85	271.23	24.647		
15,000.00	7,139.46	3,470.00	3,514.17	196.13	136.80	45.54	-2,371.27	3,104.45	6,749.17	6,475.67	273.50	24.677		
15,100.00	7,139.77	3,470.00	3,514.17	198.64	136.80	45.54	-2,371.27	3,104.45	6,814.12	6,538.34	275.77	24.709		
15,200.00	7,140.08	3,470.00	3,514.17	201.15	136.80	45.54	-2,371.27	3,104.45	6,879.91	6,601.86	278.05	24.744		
15,300.00	7,140.39	3,470.00	3,514.17	203.66	136.80	45.54	-2,371.27	3,104.45	6,946.51	6,666.20	280.32	24.781		
15,400.00	7,140.70	3,470.00	3,514.17	206.17	136.80	45.54	-2,371.27	3,104.45	7,013.91	6,731.32	282.59	24.820		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 458A - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.00	7,141.01	3,470.00	3,514.17	208.68	136.80	45.54	-2,371.27	3,104.45	7,082.08	6,797.22	284.86	24.861	
15,600.00	7,141.32	3,470.00	3,514.17	211.20	136.80	45.54	-2,371.27	3,104.45	7,151.00	6,863.87	287.14	24.904	
15,700.00	7,141.63	3,470.00	3,514.17	213.71	136.80	45.54	-2,371.27	3,104.45	7,220.65	6,931.24	289.41	24.950	
15,800.00	7,141.94	3,470.00	3,514.17	216.22	136.80	45.54	-2,371.27	3,104.45	7,291.00	6,999.32	291.68	24.996	
15,900.00	7,142.25	3,470.00	3,514.17	218.74	136.80	45.54	-2,371.27	3,104.45	7,362.04	7,068.08	293.96	25.045	
16,000.00	7,142.56	3,470.00	3,514.17	221.25	136.80	45.54	-2,371.27	3,104.45	7,433.75	7,137.51	296.23	25.094	
16,100.00	7,142.87	3,470.00	3,514.17	223.77	136.80	45.54	-2,371.27	3,104.45	7,506.10	7,207.59	298.50	25.146	
16,200.00	7,143.18	3,470.00	3,514.17	226.28	136.80	45.54	-2,371.27	3,104.45	7,579.08	7,278.30	300.78	25.198	
16,300.00	7,143.49	3,470.00	3,514.17	228.80	136.80	45.54	-2,371.27	3,104.45	7,652.67	7,349.62	303.05	25.252	
16,400.00	7,143.80	3,470.00	3,514.17	231.31	136.80	45.54	-2,371.27	3,104.45	7,726.86	7,421.53	305.33	25.307	
16,500.00	7,144.11	3,470.00	3,514.17	233.83	136.80	45.54	-2,371.27	3,104.45	7,801.62	7,494.02	307.60	25.363	
16,600.00	7,144.42	3,470.00	3,514.17	236.34	136.80	45.54	-2,371.27	3,104.45	7,876.94	7,567.06	309.87	25.420	
16,700.00	7,144.73	3,470.00	3,514.17	238.86	136.80	45.54	-2,371.27	3,104.45	7,952.80	7,640.66	312.15	25.478	
16,800.00	7,145.05	3,470.00	3,514.17	241.37	136.80	45.54	-2,371.27	3,104.45	8,029.20	7,714.78	314.42	25.536	
16,900.00	7,145.36	3,470.00	3,514.17	243.89	136.80	45.54	-2,371.27	3,104.45	8,106.11	7,789.41	316.70	25.596	
17,000.00	7,145.67	3,470.00	3,514.17	246.41	136.80	45.54	-2,371.27	3,104.45	8,183.51	7,864.54	318.97	25.656	
17,100.00	7,145.98	3,470.00	3,514.17	248.93	136.80	45.54	-2,371.27	3,104.45	8,261.41	7,940.16	321.25	25.717	
17,200.00	7,146.29	3,470.00	3,514.17	251.44	136.80	45.54	-2,371.27	3,104.45	8,339.77	8,016.25	323.52	25.778	
17,300.00	7,146.60	3,470.00	3,514.17	253.96	136.80	45.54	-2,371.27	3,104.45	8,418.59	8,092.80	325.80	25.840	
17,400.00	7,146.91	3,470.00	3,514.17	256.48	136.80	45.54	-2,371.27	3,104.45	8,497.86	8,169.79	328.07	25.902	
17,430.36	7,147.00	3,470.00	3,514.17	257.24	136.80	45.54	-2,371.27	3,104.45	8,522.01	8,193.25	328.76	25.922	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 460A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	36.17	0.00	0.00	71.72	2,837.38	8,587.73	9,044.40					
100.00	100.00	63.83	100.00	0.08	1.28	71.72	2,837.38	8,587.73	9,044.33	9,042.97	1.36	6,645.550		
107.84	107.84	71.67	107.84	0.10	1.43	71.72	2,837.38	8,587.73	9,044.33	9,042.79	1.54	5,890.501		
200.00	200.00	100.00	136.17	0.31	2.00	71.72	2,837.38	8,587.73	9,044.55	9,042.24	2.31	3,916.995		
300.00	300.00	100.00	136.17	0.53	2.00	71.72	2,837.38	8,587.73	9,045.81	9,043.28	2.53	3,570.029		
400.00	400.00	100.00	136.17	0.76	2.00	71.72	2,837.38	8,587.73	9,048.17	9,045.41	2.76	3,280.004		
500.00	500.00	100.00	136.17	0.98	2.00	71.72	2,837.38	8,587.73	9,051.64	9,048.66	2.98	3,034.051		
600.00	600.00	100.00	136.17	1.21	2.00	71.72	2,837.38	8,587.73	9,056.21	9,053.00	3.21	2,822.905		
700.00	700.00	100.00	136.17	1.43	2.00	71.72	2,837.38	8,587.73	9,061.88	9,058.45	3.43	2,639.729		
800.00	800.00	100.00	136.17	1.66	2.00	71.72	2,837.38	8,587.73	9,068.66	9,065.00	3.66	2,479.367		
900.00	900.00	100.00	136.17	1.88	2.00	71.72	2,837.38	8,587.73	9,076.52	9,072.64	3.88	2,337.854		
1,000.00	1,000.00	100.00	136.17	2.11	2.00	71.72	2,837.38	8,587.73	9,085.49	9,081.38	4.11	2,212.097		
1,100.00	1,099.98	100.00	136.17	2.33	2.00	95.13	2,837.38	8,587.73	9,095.70	9,091.37	4.33	2,100.498		
1,200.00	1,199.84	100.00	136.17	2.56	2.00	94.90	2,837.38	8,587.73	9,107.31	9,102.75	4.55	2,000.027		
1,300.00	1,299.45	100.00	136.17	2.79	2.00	94.64	2,837.38	8,587.73	9,120.29	9,115.51	4.78	1,906.371		
1,400.00	1,398.70	100.00	136.17	3.03	2.00	94.35	2,837.38	8,587.73	9,134.63	9,129.60	5.03	1,816.117		
1,500.00	1,497.47	100.00	136.17	3.30	2.00	94.03	2,837.38	8,587.73	9,150.30	9,145.00	5.30	1,726.573		
1,600.00	1,595.62	100.00	136.17	3.61	2.00	93.69	2,837.38	8,587.73	9,167.28	9,161.68	5.60	1,636.039		
1,700.00	1,693.06	100.00	136.17	3.95	2.00	93.32	2,837.38	8,587.73	9,185.54	9,179.59	5.95	1,543.890		
1,800.00	1,789.64	100.00	136.17	4.35	2.00	92.92	2,837.38	8,587.73	9,205.04	9,198.69	6.35	1,450.467		
1,900.00	1,885.30	100.00	136.17	4.80	2.00	92.59	2,837.38	8,587.73	9,225.75	9,218.96	6.80	1,357.009		
2,000.00	1,980.64	100.00	136.17	5.29	2.00	92.59	2,837.38	8,587.73	9,247.55	9,240.27	7.29	1,269.122		
2,100.00	2,075.99	100.00	136.17	5.80	2.00	92.59	2,837.38	8,587.73	9,270.38	9,262.58	7.80	1,189.185		
2,200.00	2,171.34	100.00	136.17	6.33	2.00	92.59	2,837.38	8,587.73	9,294.23	9,285.90	8.32	1,117.026		
2,300.00	2,266.68	100.00	136.17	6.87	2.00	92.59	2,837.38	8,587.73	9,319.08	9,310.23	8.86	1,052.086		
2,400.00	2,362.03	100.00	136.17	7.41	2.00	92.59	2,837.38	8,587.73	9,344.95	9,335.54	9.40	993.664		
2,500.00	2,457.38	100.00	136.17	7.97	2.00	92.59	2,837.38	8,587.73	9,371.80	9,361.84	9.96	941.040		
2,600.00	2,552.72	100.00	136.17	8.53	2.00	92.59	2,837.38	8,587.73	9,399.65	9,389.13	10.52	893.540		
2,700.00	2,648.07	100.00	136.17	9.10	2.00	92.59	2,837.38	8,587.73	9,428.47	9,417.39	11.09	850.550		
2,800.00	2,743.42	100.00	136.17	9.67	2.00	92.59	2,837.38	8,587.73	9,458.27	9,446.61	11.65	811.530		
2,900.00	2,838.77	100.00	136.17	10.24	2.00	92.59	2,837.38	8,587.73	9,489.02	9,476.79	12.23	776.007		
3,000.00	2,934.11	100.00	136.17	10.82	2.00	92.59	2,837.38	8,587.73	9,520.72	9,507.92	12.80	743.572		
3,100.00	3,029.46	100.00	136.17	11.40	2.00	92.59	2,837.38	8,587.73	9,553.37	9,539.99	13.38	713.870		
3,200.00	3,124.81	100.00	136.17	11.98	2.00	92.59	2,837.38	8,587.73	9,586.95	9,572.98	13.96	686.592		
3,300.00	3,220.15	100.00	136.17	12.56	2.00	92.59	2,837.38	8,587.73	9,621.45	9,606.90	14.55	661.474		
3,400.00	3,315.50	100.00	136.17	13.14	2.00	92.59	2,837.38	8,587.73	9,656.86	9,641.73	15.13	638.285		
3,500.00	3,410.85	100.00	136.17	13.73	2.00	92.59	2,837.38	8,587.73	9,693.17	9,677.46	15.71	616.822		
3,600.00	3,506.19	100.00	136.17	14.32	2.00	92.59	2,837.38	8,587.73	9,730.38	9,714.08	16.30	596.912		
3,700.00	3,601.54	100.00	136.17	14.91	2.00	92.59	2,837.38	8,587.73	9,768.47	9,751.58	16.89	578.401		
3,800.00	3,696.89	100.00	136.17	15.50	2.00	92.59	2,837.38	8,587.73	9,807.43	9,789.95	17.48	561.154		
3,900.00	3,792.24	100.00	136.17	16.09	2.00	92.59	2,837.38	8,587.73	9,847.25	9,829.19	18.07	545.054		
4,000.00	3,887.58	100.00	136.17	16.68	2.00	92.59	2,837.38	8,587.73	9,887.93	9,869.27	18.66	529.995		
4,100.00	3,982.93	100.00	136.17	17.27	2.00	92.59	2,837.38	8,587.73	9,929.44	9,910.19	19.25	515.886		
4,200.00	4,078.28	100.00	136.17	17.86	2.00	92.59	2,837.38	8,587.73	9,971.78	9,951.95	19.84	502.643		
4,300.00	4,173.62	100.00	136.17	18.45	2.00	92.59	2,837.38	8,587.73	10,014.95	9,994.52	20.43	490.194		
4,400.00	4,268.97	100.00	136.17	19.05	2.00	92.59	2,837.38	8,587.73	10,058.92	10,037.90	21.02	478.474		
4,500.00	4,364.32	100.00	136.17	19.64	2.00	92.59	2,837.38	8,587.73	10,103.69	10,082.08	21.62	467.423		
4,600.00	4,459.67	100.00	136.17	20.23	2.00	92.59	2,837.38	8,587.73	10,149.25	10,127.04	22.21	456.989		
4,700.00	4,555.01	100.00	136.17	20.83	2.00	92.59	2,837.38	8,587.73	10,195.59	10,172.78	22.80	447.124		
4,800.00	4,650.36	100.00	136.17	21.42	2.00	92.59	2,837.38	8,587.73	10,242.69	10,219.29	23.40	437.787		
4,900.00	4,745.71	100.00	136.17	22.02	2.00	92.59	2,837.38	8,587.73	10,290.55	10,266.56	23.99	428.938		
5,000.00	4,841.05	100.00	136.17	22.61	2.00	92.59	2,837.38	8,587.73	10,339.15	10,314.57	24.59	420.542		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 460A - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,936.40	100.00	136.17	23.21	2.00	92.59	2,837.38	8,587.73	10,388.49	10,363.31	25.18	412.567	
5,200.00	5,031.75	100.00	136.17	23.80	2.00	92.59	2,837.38	8,587.73	10,438.55	10,412.78	25.78	404.985	
5,300.00	5,127.09	100.00	136.17	24.40	2.00	92.59	2,837.38	8,587.73	10,489.33	10,462.96	26.37	397.768	
5,400.00	5,222.44	100.00	136.17	25.00	2.00	92.59	2,837.38	8,587.73	10,540.82	10,513.85	26.97	390.893	
5,500.00	5,317.79	100.00	136.17	25.59	2.00	92.59	2,837.38	8,587.73	10,592.99	10,565.43	27.56	384.338	
5,600.00	5,413.14	100.00	136.17	26.19	2.00	92.59	2,837.38	8,587.73	10,645.85	10,617.70	28.16	378.082	
5,700.00	5,508.48	100.00	136.17	26.78	2.00	92.61	2,837.38	8,587.73	10,699.39	10,670.64	28.75	372.121	
5,800.00	5,604.35	100.00	136.17	27.24	2.00	93.90	2,837.38	8,587.73	10,753.51	10,724.33	29.18	368.531	
5,900.00	5,701.15	100.00	136.17	27.65	2.00	95.20	2,837.38	8,587.73	10,808.08	10,778.52	29.55	365.698	
6,000.00	5,798.77	100.00	136.17	28.02	2.00	96.50	2,837.38	8,587.73	10,863.04	10,833.16	29.88	363.599	
6,100.00	5,897.08	100.00	136.17	28.35	2.00	97.82	2,837.38	8,587.73	10,918.30	10,888.16	30.14	362.213	
6,200.00	5,995.98	100.00	136.17	28.63	2.00	99.14	2,837.38	8,587.73	10,973.81	10,943.46	30.35	361.523	
6,300.00	6,095.33	100.00	136.17	28.87	2.00	100.46	2,837.38	8,587.73	11,029.49	10,998.98	30.51	361.511	
6,400.00	6,195.01	100.00	136.17	29.06	2.00	101.78	2,837.38	8,587.73	11,085.26	11,054.66	30.61	362.166	
6,500.00	6,294.91	100.00	136.17	29.20	2.00	103.09	2,837.38	8,587.73	11,141.07	11,110.42	30.65	363.476	
6,600.00	6,394.89	100.00	136.17	29.30	2.00	-9.19	2,837.38	8,587.73	11,196.52	11,165.91	30.62	365.697	
6,700.00	6,494.28	100.00	136.17	29.34	2.00	-8.52	2,837.38	8,587.73	11,243.98	11,213.84	30.14	373.079	
6,800.00	6,591.26	100.00	136.17	29.31	2.00	-8.08	2,837.38	8,587.73	11,279.64	11,250.54	29.10	387.586	
6,900.00	6,683.95	100.00	136.17	29.23	2.00	-7.82	2,837.38	8,587.73	11,302.92	11,275.38	27.54	410.392	
7,000.00	6,770.55	100.00	136.17	29.09	2.00	-7.70	2,837.38	8,587.73	11,313.44	11,287.93	25.51	443.555	
7,100.00	6,849.36	100.00	136.17	28.92	2.00	-7.73	2,837.38	8,587.73	11,311.04	11,287.97	23.07	490.366	
7,200.00	6,918.86	100.00	136.17	28.73	2.00	-7.90	2,837.38	8,587.73	11,295.75	11,275.42	20.32	555.825	
7,300.00	6,977.70	100.00	136.17	28.54	2.00	-8.22	2,837.38	8,587.73	11,267.82	11,250.39	17.42	646.744	
7,400.00	7,027.98	100.00	136.17	28.35	2.00	-8.41	2,837.38	8,587.73	11,231.04	11,214.70	16.34	687.124	
7,500.00	7,070.01	100.00	136.17	28.19	2.00	-9.01	2,837.38	8,587.73	11,186.67	11,172.94	13.72	815.070	
7,600.00	7,099.01	100.00	136.17	28.06	2.00	-9.89	2,837.38	8,587.73	11,131.04	11,119.21	11.83	940.628	
7,700.00	7,114.42	100.00	136.17	27.97	2.00	-11.17	2,837.38	8,587.73	11,065.09	11,053.76	11.34	975.960	
7,800.00	7,117.13	100.00	136.17	28.00	2.00	-12.20	2,837.38	8,587.73	10,990.67	10,978.49	12.18	902.269	
7,900.00	7,117.44	100.00	136.17	28.26	2.00	-12.20	2,837.38	8,587.73	10,915.07	10,902.17	12.89	846.497	
8,000.00	7,117.75	100.00	136.17	28.94	2.00	-12.20	2,837.38	8,587.73	10,839.86	10,826.23	13.63	795.290	
8,100.00	7,118.06	100.00	136.17	30.16	2.00	-12.20	2,837.38	8,587.73	10,765.05	10,750.67	14.38	748.371	
8,200.00	7,118.37	100.00	136.17	31.76	2.00	-12.20	2,837.38	8,587.73	10,690.66	10,675.50	15.16	705.412	
8,300.00	7,118.68	100.00	136.17	33.58	2.00	-12.20	2,837.38	8,587.73	10,616.69	10,600.75	15.94	666.067	
8,400.00	7,118.99	100.00	136.17	35.53	2.00	-12.20	2,837.38	8,587.73	10,543.14	10,526.41	16.74	630.000	
8,500.00	7,119.30	100.00	136.17	37.56	2.00	-12.20	2,837.38	8,587.73	10,470.04	10,452.50	17.54	596.890	
8,600.00	7,119.61	100.00	136.17	39.66	2.00	-12.20	2,837.38	8,587.73	10,397.38	10,379.02	18.36	566.446	
8,700.00	7,119.92	100.00	136.17	41.80	2.00	-12.20	2,837.38	8,587.73	10,325.18	10,306.00	19.18	538.401	
8,800.00	7,120.23	100.00	136.17	43.99	2.00	-12.20	2,837.38	8,587.73	10,253.44	10,233.44	20.01	512.516	
8,900.00	7,120.54	100.00	136.17	46.22	2.00	-12.20	2,837.38	8,587.73	10,182.19	10,161.35	20.84	488.577	
9,000.00	7,120.85	100.00	136.17	48.47	2.00	-12.20	2,837.38	8,587.73	10,111.42	10,089.74	21.68	466.394	
9,100.00	7,121.16	100.00	136.17	50.75	2.00	-12.20	2,837.38	8,587.73	10,041.14	10,018.62	22.52	445.797	
9,200.00	7,121.47	100.00	136.17	53.05	2.00	-12.20	2,837.38	8,587.73	9,971.38	9,948.01	23.37	426.636	
9,300.00	7,121.78	100.00	136.17	55.37	2.00	-12.20	2,837.38	8,587.73	9,902.13	9,877.91	24.22	408.778	
9,400.00	7,122.09	100.00	136.17	57.71	2.00	-12.20	2,837.38	8,587.73	9,833.42	9,808.34	25.08	392.104	
9,500.00	7,122.40	100.00	136.17	60.06	2.00	-12.20	2,837.38	8,587.73	9,765.24	9,739.30	25.94	376.508	
9,600.00	7,122.71	100.00	136.17	62.43	2.00	-12.20	2,837.38	8,587.73	9,697.61	9,670.82	26.80	361.895	
9,700.00	7,123.02	100.00	136.17	64.80	2.00	-12.20	2,837.38	8,587.73	9,630.55	9,602.89	27.66	348.183	
9,800.00	7,123.33	100.00	136.17	67.19	2.00	-12.20	2,837.38	8,587.73	9,564.07	9,535.54	28.52	335.294	
9,900.00	7,123.65	100.00	136.17	69.59	2.00	-12.20	2,837.38	8,587.73	9,498.17	9,468.78	29.39	323.163	
10,000.00	7,123.96	100.00	136.17	71.99	2.00	-12.20	2,837.38	8,587.73	9,432.87	9,402.61	30.26	311.728	
10,100.00	7,124.27	100.00	136.17	74.40	2.00	-12.20	2,837.38	8,587.73	9,368.18	9,337.05	31.13	300.936	
10,200.00	7,124.58	100.00	136.17	76.82	2.00	-12.20	2,837.38	8,587.73	9,304.12	9,272.12	32.00	290.736	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 460A - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300.00	7,124.89	100.00	136.17	79.25	2.00	-12.20	2,837.38	8,587.73	9,240.70	9,207.82	32.88	281.085			
10,400.00	7,125.20	100.00	136.17	81.68	2.00	-12.20	2,837.38	8,587.73	9,177.92	9,144.17	33.75	271.942			
10,500.00	7,125.51	100.00	136.17	84.12	2.00	-12.20	2,837.38	8,587.73	9,115.82	9,081.19	34.63	263.272			
10,600.00	7,125.82	100.00	136.17	86.56	2.00	-12.20	2,837.38	8,587.73	9,054.39	9,018.89	35.50	255.040			
10,700.00	7,126.13	100.00	136.17	89.01	2.00	-12.20	2,837.38	8,587.73	8,993.65	8,957.27	36.38	247.218			
10,800.00	7,126.44	100.00	136.17	91.46	2.00	-12.20	2,837.38	8,587.73	8,933.62	8,896.36	37.26	239.776			
10,900.00	7,126.75	100.00	136.17	93.91	2.00	-12.20	2,837.38	8,587.73	8,874.31	8,836.17	38.14	232.692			
11,000.00	7,127.06	100.00	136.17	96.37	2.00	-12.20	2,837.38	8,587.73	8,815.74	8,776.72	39.02	225.941			
11,100.00	7,127.37	100.00	136.17	98.83	2.00	-12.20	2,837.38	8,587.73	8,757.91	8,718.01	39.90	219.502			
11,200.00	7,127.68	100.00	136.17	101.30	2.00	-12.20	2,837.38	8,587.73	8,700.85	8,660.07	40.78	213.357			
11,300.00	7,127.99	100.00	136.17	103.77	2.00	-12.20	2,837.38	8,587.73	8,644.58	8,602.91	41.66	207.487			
11,400.00	7,128.30	100.00	136.17	106.24	2.00	-12.20	2,837.38	8,587.73	8,589.09	8,546.55	42.55	201.877			
11,500.00	7,128.61	100.00	136.17	108.71	2.00	-12.20	2,837.38	8,587.73	8,534.42	8,490.99	43.43	196.511			
11,600.00	7,128.92	100.00	136.17	111.19	2.00	-12.20	2,837.38	8,587.73	8,480.57	8,436.26	44.31	191.375			
11,700.00	7,129.23	100.00	136.17	113.66	2.00	-12.20	2,837.38	8,587.73	8,427.57	8,382.37	45.20	186.456			
11,800.00	7,129.54	100.00	136.17	116.14	2.00	-12.20	2,837.38	8,587.73	8,375.43	8,329.34	46.08	181.743			
11,900.00	7,129.85	100.00	136.17	118.62	2.00	-12.20	2,837.38	8,587.73	8,324.16	8,277.19	46.97	177.225			
12,000.00	7,130.16	100.00	136.17	121.11	2.00	-12.20	2,837.38	8,587.73	8,273.78	8,225.92	47.86	172.891			
12,100.00	7,130.47	100.00	136.17	123.59	2.00	-12.20	2,837.38	8,587.73	8,224.31	8,175.57	48.74	168.732			
12,200.00	7,130.78	100.00	136.17	126.08	2.00	-12.20	2,837.38	8,587.73	8,175.76	8,126.13	49.63	164.738			
12,300.00	7,131.09	100.00	136.17	128.57	2.00	-12.20	2,837.38	8,587.73	8,128.15	8,077.64	50.52	160.902			
12,400.00	7,131.40	100.00	136.17	131.06	2.00	-12.20	2,837.38	8,587.73	8,081.51	8,030.10	51.40	157.217			
12,500.00	7,131.71	100.00	136.17	133.55	2.00	-12.20	2,837.38	8,587.73	8,035.83	7,983.54	52.29	153.674			
12,600.00	7,132.02	100.00	136.17	136.04	2.00	-12.20	2,837.38	8,587.73	7,991.14	7,937.96	53.18	150.267			
12,700.00	7,132.33	100.00	136.17	138.54	2.00	-12.20	2,837.38	8,587.73	7,947.46	7,893.40	54.07	146.990			
12,800.00	7,132.64	100.00	136.17	141.03	2.00	-12.20	2,837.38	8,587.73	7,904.81	7,849.85	54.96	143.837			
12,900.00	7,132.95	100.00	136.17	143.53	2.00	-12.20	2,837.38	8,587.73	7,863.19	7,807.35	55.85	140.802			
13,000.00	7,133.26	100.00	136.17	146.02	2.00	-12.20	2,837.38	8,587.73	7,822.64	7,765.90	56.74	137.880			
13,100.00	7,133.57	100.00	136.17	148.52	2.00	-12.20	2,837.38	8,587.73	7,783.15	7,725.53	57.62	135.066			
13,200.00	7,133.88	100.00	136.17	151.02	2.00	-12.20	2,837.38	8,587.73	7,744.76	7,686.25	58.51	132.356			
13,300.00	7,134.19	100.00	136.17	153.52	2.00	-12.20	2,837.38	8,587.73	7,707.47	7,648.07	59.40	129.746			
13,400.00	7,134.50	100.00	136.17	156.02	2.00	-12.20	2,837.38	8,587.73	7,671.31	7,611.01	60.29	127.230			
13,500.00	7,134.81	100.00	136.17	158.52	2.00	-12.20	2,837.38	8,587.73	7,636.28	7,575.09	61.19	124.806			
13,600.00	7,135.12	100.00	136.17	161.03	2.00	-12.20	2,837.38	8,587.73	7,602.41	7,540.33	62.08	122.470			
13,700.00	7,135.43	100.00	136.17	163.53	2.00	-12.20	2,837.38	8,587.73	7,569.70	7,506.74	62.97	120.218			
13,800.00	7,135.74	100.00	136.17	166.03	2.00	-12.20	2,837.38	8,587.73	7,538.19	7,474.33	63.86	118.047			
13,900.00	7,136.05	100.00	136.17	168.54	2.00	-12.20	2,837.38	8,587.73	7,507.87	7,443.12	64.75	115.954			
14,000.00	7,136.36	100.00	136.17	171.04	2.00	-12.20	2,837.38	8,587.73	7,478.76	7,413.12	65.64	113.936			
14,100.00	7,136.67	100.00	136.17	173.55	2.00	-12.20	2,837.38	8,587.73	7,450.89	7,384.35	66.53	111.991			
14,200.00	7,136.98	100.00	136.17	176.05	2.00	-12.20	2,837.38	8,587.73	7,424.25	7,356.83	67.42	110.115			
14,300.00	7,137.29	100.00	136.17	178.56	2.00	-12.20	2,837.38	8,587.73	7,398.87	7,330.56	68.31	108.306			
14,400.00	7,137.60	100.00	136.17	181.07	2.00	-12.20	2,837.38	8,587.73	7,374.77	7,305.56	69.21	106.562			
14,500.00	7,137.91	100.00	136.17	183.58	2.00	-12.20	2,837.38	8,587.73	7,351.94	7,281.84	70.10	104.880			
14,600.00	7,138.22	100.00	136.17	186.09	2.00	-12.20	2,837.38	8,587.73	7,330.40	7,259.41	70.99	103.259			
14,700.00	7,138.53	100.00	136.17	188.59	2.00	-12.20	2,837.38	8,587.73	7,310.17	7,238.29	71.88	101.696			
14,800.00	7,138.84	100.00	136.17	191.10	2.00	-12.20	2,837.38	8,587.73	7,291.26	7,218.48	72.78	100.189			
14,900.00	7,139.15	100.00	136.17	193.61	2.00	-12.20	2,837.38	8,587.73	7,273.67	7,200.00	73.67	98.736			
15,000.00	7,139.46	100.00	136.17	196.13	2.00	-12.20	2,837.38	8,587.73	7,257.42	7,182.86	74.56	97.336			
15,100.00	7,139.77	100.00	136.17	198.64	2.00	-12.20	2,837.38	8,587.73	7,242.51	7,167.05	75.45	95.987			
15,200.00	7,140.08	100.00	136.17	201.15	2.00	-12.20	2,837.38	8,587.73	7,228.95	7,152.61	76.35	94.687			
15,300.00	7,140.39	100.00	136.17	203.66	2.00	-12.20	2,837.38	8,587.73	7,216.76	7,139.52	77.24	93.434			
15,400.00	7,140.70	100.00	136.17	206.17	2.00	-12.20	2,837.38	8,587.73	7,205.93	7,127.80	78.13	92.228			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 460A - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,500.00	7,141.01	100.00	136.17	208.68	2.00	-12.20	2,837.38	8,587.73	7,196.47	7,117.45	79.02	91.066	
15,600.00	7,141.32	100.00	136.17	211.20	2.00	-12.20	2,837.38	8,587.73	7,188.40	7,108.48	79.92	89.947	
15,700.00	7,141.63	100.00	136.17	213.71	2.00	-12.20	2,837.38	8,587.73	7,181.70	7,100.89	80.81	88.870	
15,800.00	7,141.94	100.00	136.17	216.22	2.00	-12.20	2,837.38	8,587.73	7,176.40	7,094.69	81.70	87.833	
15,900.00	7,142.25	100.00	136.17	218.74	2.00	-12.20	2,837.38	8,587.73	7,172.48	7,089.88	82.60	86.836	
16,000.00	7,142.56	100.00	136.17	221.25	2.00	-12.20	2,837.38	8,587.73	7,169.96	7,086.47	83.49	85.876	
16,100.00	7,142.87	100.00	136.17	223.77	2.00	-12.20	2,837.38	8,587.73	7,168.83	7,084.45	84.39	84.953	
16,130.89	7,142.97	100.00	136.17	224.54	2.00	-12.20	2,837.38	8,587.73	7,168.76	7,084.10	84.66	84.676 CC	
16,200.00	7,143.18	100.00	136.17	226.28	2.00	-12.20	2,837.38	8,587.73	7,169.10	7,083.82	85.28	84.066 ES	
16,300.00	7,143.49	100.00	136.17	228.80	2.00	-12.20	2,837.38	8,587.73	7,170.76	7,084.59	86.17	83.214	
16,400.00	7,143.80	100.00	136.17	231.31	2.00	-12.20	2,837.38	8,587.73	7,173.81	7,086.75	87.07	82.395	
16,500.00	7,144.11	100.00	136.17	233.83	2.00	-12.20	2,837.38	8,587.73	7,178.26	7,090.30	87.96	81.608	
16,600.00	7,144.42	100.00	136.17	236.34	2.00	-12.20	2,837.38	8,587.73	7,184.10	7,095.24	88.85	80.852	
16,700.00	7,144.73	100.00	136.17	238.86	2.00	-12.20	2,837.38	8,587.73	7,191.32	7,101.57	89.75	80.128	
16,800.00	7,145.05	100.00	136.17	241.37	2.00	-12.20	2,837.38	8,587.73	7,199.92	7,109.28	90.64	79.432	
16,900.00	7,145.36	100.00	136.17	243.89	2.00	-12.20	2,837.38	8,587.73	7,209.90	7,118.37	91.54	78.765	
17,000.00	7,145.67	100.00	136.17	246.41	2.00	-12.20	2,837.38	8,587.73	7,221.26	7,128.83	92.43	78.126	
17,100.00	7,145.98	100.00	136.17	248.93	2.00	-12.20	2,837.38	8,587.73	7,233.97	7,140.65	93.33	77.514	
17,200.00	7,146.29	100.00	136.17	251.44	2.00	-12.20	2,837.38	8,587.73	7,248.05	7,153.83	94.22	76.927	
17,300.00	7,146.60	100.00	136.17	253.96	2.00	-12.20	2,837.38	8,587.73	7,263.47	7,168.36	95.11	76.366	
17,400.00	7,146.91	100.00	136.17	256.48	2.00	-12.20	2,837.38	8,587.73	7,280.24	7,184.23	96.01	75.829	
17,430.36	7,147.00	100.00	136.17	257.24	2.00	-12.20	2,837.38	8,587.73	7,285.59	7,189.31	96.28	75.671 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 492A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
0.00	0.00	0.76	0.00	0.00	0.02	50.02	2,913.38	3,475.05	4,534.73					
100.00	100.00	100.76	100.00	0.08	2.03	50.02	2,913.38	3,475.05	4,534.73	4,532.61	2.11	2,144.396		
200.00	200.00	200.76	200.00	0.31	6.03	50.02	2,913.38	3,475.05	4,534.73	4,528.39	6.34	715.318		
300.00	300.00	300.76	300.00	0.53	10.03	50.02	2,913.38	3,475.05	4,534.73	4,524.16	10.56	429.253		
400.00	400.00	400.76	400.00	0.76	14.03	50.02	2,913.38	3,475.05	4,534.73	4,519.94	14.79	306.629		
500.00	500.00	500.76	500.00	0.98	18.03	50.02	2,913.38	3,475.05	4,534.73	4,515.71	19.01	238.497		
600.00	600.00	600.76	600.00	1.21	22.03	50.02	2,913.38	3,475.05	4,534.73	4,511.49	23.24	195.138		
700.00	700.00	700.76	700.00	1.43	26.03	50.02	2,913.38	3,475.05	4,534.73	4,507.26	27.46	165.120		
800.00	800.00	800.76	800.00	1.66	30.03	50.02	2,913.38	3,475.05	4,534.73	4,503.04	31.69	143.105		
900.00	900.00	900.76	900.00	1.88	34.03	50.02	2,913.38	3,475.05	4,534.73	4,498.82	35.91	126.270		
1,000.00	1,000.00	1,000.76	1,000.00	2.11	38.03	50.02	2,913.38	3,475.05	4,534.73	4,494.59	40.14	112.980		
1,100.00	1,099.98	1,100.74	1,099.98	2.33	42.03	73.67	2,913.38	3,475.05	4,534.24	4,489.88	44.36	102.219		
1,200.00	1,199.84	1,200.60	1,199.84	2.56	46.02	73.76	2,913.38	3,475.05	4,532.77	4,484.20	48.57	93.324		
1,300.00	1,299.45	1,300.21	1,299.45	2.79	50.01	73.92	2,913.38	3,475.05	4,530.33	4,477.56	52.77	85.844		
1,400.00	1,398.70	1,399.46	1,398.70	3.03	53.98	74.13	2,913.38	3,475.05	4,526.95	4,469.98	56.97	79.460		
1,500.00	1,497.47	1,498.23	1,497.47	3.30	57.93	74.40	2,913.38	3,475.05	4,522.66	4,461.50	61.17	73.939		
1,600.00	1,595.62	1,596.38	1,595.62	3.61	61.86	74.73	2,913.38	3,475.05	4,517.50	4,452.13	65.36	69.112		
1,700.00	1,693.06	1,693.82	1,693.06	3.95	65.75	75.11	2,913.38	3,475.05	4,511.50	4,441.93	69.57	64.849		
1,800.00	1,789.84	1,790.40	1,789.84	4.35	69.62	75.55	2,913.38	3,475.05	4,504.73	4,430.95	73.79	61.051		
1,900.00	1,885.30	1,886.06	1,885.30	4.80	73.44	76.01	2,913.38	3,475.05	4,497.27	4,419.25	78.03	57.638		
2,000.00	1,980.64	1,981.40	1,980.64	5.29	77.26	76.37	2,913.38	3,475.05	4,489.75	4,407.42	82.32	54.539		
2,100.00	2,075.99	2,076.75	2,075.99	5.80	81.07	76.72	2,913.38	3,475.05	4,482.41	4,395.77	86.64	51.737		
2,200.00	2,171.34	2,172.10	2,171.34	6.33	84.88	77.08	2,913.38	3,475.05	4,475.26	4,384.29	90.97	49.194		
2,300.00	2,266.68	2,267.44	2,266.68	6.87	88.70	77.44	2,913.38	3,475.05	4,468.31	4,372.99	95.32	46.877		
2,400.00	2,362.03	2,362.79	2,362.03	7.41	92.51	77.80	2,913.38	3,475.05	4,461.55	4,361.87	99.68	44.759		
2,500.00	2,457.38	2,458.14	2,457.38	7.97	96.33	78.17	2,913.38	3,475.05	4,454.98	4,350.93	104.05	42.817		
2,600.00	2,552.72	2,553.48	2,552.72	8.53	100.14	78.53	2,913.38	3,475.05	4,448.60	4,340.18	108.42	41.030		
2,700.00	2,648.07	2,648.83	2,648.07	9.10	103.95	78.89	2,913.38	3,475.05	4,442.43	4,329.62	112.81	39.381		
2,800.00	2,743.42	2,744.18	2,743.42	9.67	107.77	79.26	2,913.38	3,475.05	4,436.45	4,319.25	117.19	37.856		
2,900.00	2,838.77	2,839.53	2,838.77	10.24	111.58	79.62	2,913.38	3,475.05	4,430.66	4,309.08	121.59	36.441		
3,000.00	2,934.11	2,934.87	2,934.11	10.82	115.39	79.99	2,913.38	3,475.05	4,425.08	4,299.09	125.98	35.125		
3,100.00	3,029.46	3,030.22	3,029.46	11.40	119.21	80.36	2,913.38	3,475.05	4,419.69	4,289.31	130.38	33.898		
3,200.00	3,124.81	3,125.57	3,124.81	11.98	123.02	80.73	2,913.38	3,475.05	4,414.50	4,279.71	134.79	32.752		
3,300.00	3,220.15	3,220.91	3,220.15	12.56	126.84	81.10	2,913.38	3,475.05	4,409.51	4,270.32	139.19	31.680		
3,400.00	3,315.50	3,316.26	3,315.50	13.14	130.65	81.47	2,913.38	3,475.05	4,404.72	4,261.12	143.60	30.674		
3,500.00	3,410.85	3,411.61	3,410.85	13.73	134.46	81.84	2,913.38	3,475.05	4,400.14	4,252.13	148.01	29.729		
3,600.00	3,506.19	3,506.95	3,506.19	14.32	138.27	82.20	2,913.38	3,475.05	4,395.75	4,243.27	152.41	28.886		
3,700.00	3,601.54	3,602.30	3,601.54	14.91	142.08	82.56	2,913.38	3,475.05	4,391.50	4,234.50	156.81	28.131		
3,800.00	3,696.89	3,697.65	3,696.89	15.50	145.89	82.92	2,913.38	3,475.05	4,387.25	4,225.73	161.21	27.476		
3,900.00	3,792.24	3,793.00	3,792.24	16.09	149.70	83.28	2,913.38	3,475.05	4,383.00	4,216.96	165.61	26.821		
4,000.00	3,887.58	3,888.34	3,887.58	16.68	153.51	83.64	2,913.38	3,475.05	4,378.75	4,208.19	170.01	26.166		
4,100.00	3,982.93	3,983.69	3,982.93	17.27	157.32	84.00	2,913.38	3,475.05	4,374.50	4,199.42	174.41	25.511		
4,200.00	4,078.28	4,079.04	4,078.28	17.86	161.13	84.36	2,913.38	3,475.05	4,370.25	4,190.65	178.81	24.856		
4,300.00	4,173.62	4,174.38	4,173.62	18.45	164.94	84.72	2,913.38	3,475.05	4,366.00	4,181.88	183.21	24.201		
4,400.00	4,268.97	4,269.73	4,268.97	19.05	168.75	85.08	2,913.38	3,475.05	4,361.75	4,173.11	187.61	23.546		
4,500.00	4,364.32	4,365.08	4,364.32	19.64	172.56	85.44	2,913.38	3,475.05	4,357.50	4,164.34	192.01	22.891		
4,600.00	4,459.67	4,460.43	4,459.67	20.23	176.37	85.80	2,913.38	3,475.05	4,353.25	4,155.57	196.41	22.236		
4,700.00	4,555.01	4,555.77	4,555.01	20.83	180.18	86.16	2,913.38	3,475.05	4,349.00	4,146.80	200.81	21.581		
4,800.00	4,650.36	4,651.12	4,650.36	21.42	183.99	86.52	2,913.38	3,475.05	4,344.75	4,138.03	205.21	20.926		
4,900.00	4,745.71	4,746.47	4,745.71	22.02	187.80	86.88	2,913.38	3,475.05	4,340.50	4,129.26	209.61	20.271		
5,000.00	4,841.05	4,841.81	4,841.05	22.61	191.61	87.24	2,913.38	3,475.05	4,336.25	4,120.49	214.01	19.616		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 492A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	4,936.40	3,453.00	3,452.24	23.21	136.12	82.00	2,913.38	3,475.05	4,600.55	4,441.46	159.09	28.918		
5,200.00	5,031.75	3,453.00	3,452.24	23.80	136.12	82.00	2,913.38	3,475.05	4,631.16	4,471.48	159.68	29.003		
5,300.00	5,127.09	3,453.00	3,452.24	24.40	136.12	82.00	2,913.38	3,475.05	4,663.72	4,503.45	160.27	29.099		
5,400.00	5,222.44	3,453.00	3,452.24	25.00	136.12	82.00	2,913.38	3,475.05	4,698.19	4,537.32	160.87	29.206		
5,500.00	5,317.79	3,453.00	3,452.24	25.59	136.12	82.00	2,913.38	3,475.05	4,734.51	4,573.05	161.46	29.324		
5,600.00	5,413.14	3,453.00	3,452.24	26.19	136.12	82.00	2,913.38	3,475.05	4,772.65	4,610.60	162.05	29.452		
5,700.00	5,508.48	3,453.00	3,452.24	26.78	136.12	82.01	2,913.38	3,475.05	4,812.57	4,649.93	162.64	29.590		
5,800.00	5,604.35	3,453.00	3,452.24	27.24	136.12	82.92	2,913.38	3,475.05	4,854.44	4,691.27	163.17	29.750		
5,900.00	5,701.15	3,453.00	3,452.24	27.65	136.12	83.90	2,913.38	3,475.05	4,898.38	4,734.73	163.65	29.932		
6,000.00	5,798.77	3,453.00	3,452.24	28.02	136.12	84.92	2,913.38	3,475.05	4,944.28	4,780.21	164.07	30.136		
6,100.00	5,897.08	3,453.00	3,452.24	28.35	136.12	86.01	2,913.38	3,475.05	4,992.03	4,827.60	164.43	30.360		
6,200.00	5,995.98	3,453.00	3,452.24	28.63	136.12	87.15	2,913.38	3,475.05	5,041.52	4,876.78	164.73	30.604		
6,300.00	6,095.33	3,453.00	3,452.24	28.87	136.12	88.33	2,913.38	3,475.05	5,092.64	4,927.66	164.98	30.868		
6,400.00	6,195.01	3,453.00	3,452.24	29.06	136.12	89.57	2,913.38	3,475.05	5,145.28	4,980.11	165.18	31.150		
6,500.00	6,294.91	3,453.00	3,452.24	29.20	136.12	90.86	2,913.38	3,475.05	5,199.34	5,034.02	165.32	31.451		
6,600.00	6,394.89	3,453.00	3,452.24	29.30	136.12	-21.16	2,913.38	3,475.05	5,254.39	5,089.07	165.32	31.784		
6,700.00	6,494.28	3,453.00	3,452.24	29.34	136.12	-19.61	2,913.38	3,475.05	5,302.83	5,139.61	163.22	32.489		
6,800.00	6,591.26	3,453.00	3,452.24	29.31	136.12	-18.53	2,913.38	3,475.05	5,340.96	5,182.76	158.20	33.760		
6,900.00	6,683.95	3,453.00	3,452.24	29.23	136.12	-17.82	2,913.38	3,475.05	5,368.27	5,217.88	150.39	35.695		
7,000.00	6,770.55	3,453.00	3,452.24	29.09	136.12	-17.43	2,913.38	3,475.05	5,384.39	5,244.37	140.02	38.454		
7,100.00	6,849.36	3,453.00	3,452.24	28.92	136.12	-17.31	2,913.38	3,475.05	5,389.12	5,261.64	127.48	42.275		
7,200.00	6,918.86	3,453.00	3,452.24	28.73	136.12	-17.47	2,913.38	3,475.05	5,382.38	5,269.07	113.31	47.501		
7,300.00	6,977.70	3,453.00	3,452.24	28.54	136.12	-17.92	2,913.38	3,475.05	5,364.27	5,265.90	98.37	54.533		
7,400.00	7,027.98	3,453.00	3,452.24	28.35	136.12	-18.19	2,913.38	3,475.05	5,338.38	5,245.89	92.49	57.720		
7,500.00	7,070.01	3,453.00	3,452.24	28.19	136.12	-19.07	2,913.38	3,475.05	5,305.81	5,226.91	78.90	67.245		
7,600.00	7,099.01	3,453.00	3,452.24	28.06	136.12	-20.36	2,913.38	3,475.05	5,262.66	5,193.47	69.19	76.064		
7,700.00	7,114.42	3,453.00	3,452.24	27.97	136.12	-22.18	2,913.38	3,475.05	5,209.51	5,142.90	66.61	78.208		
7,800.00	7,117.13	3,453.00	3,452.24	28.00	136.12	-23.58	2,913.38	3,475.05	5,147.95	5,078.32	69.63	73.934		
7,900.00	7,117.44	3,453.00	3,452.24	28.26	136.12	-23.58	2,913.38	3,475.05	5,085.82	5,015.35	70.47	72.169		
8,000.00	7,117.75	3,453.00	3,452.24	28.94	136.12	-23.58	2,913.38	3,475.05	5,024.92	4,953.56	71.36	70.418		
8,100.00	7,118.06	3,453.00	3,452.24	30.16	136.12	-23.58	2,913.38	3,475.05	4,965.29	4,893.00	72.29	68.690		
8,200.00	7,118.37	3,453.00	3,452.24	31.76	136.12	-23.58	2,913.38	3,475.05	4,906.97	4,833.72	73.25	66.993		
8,300.00	7,118.68	3,453.00	3,452.24	33.58	136.12	-23.58	2,913.38	3,475.05	4,850.01	4,775.78	74.24	65.333		
8,400.00	7,118.99	3,453.00	3,452.24	35.53	136.12	-23.58	2,913.38	3,475.05	4,794.46	4,719.21	75.25	63.715		
8,500.00	7,119.30	3,453.00	3,452.24	37.56	136.12	-23.58	2,913.38	3,475.05	4,740.37	4,664.09	76.28	62.143		
8,600.00	7,119.61	3,453.00	3,452.24	39.66	136.12	-23.58	2,913.38	3,475.05	4,687.79	4,610.46	77.33	60.617		
8,700.00	7,119.92	3,453.00	3,452.24	41.80	136.12	-23.58	2,913.38	3,475.05	4,636.77	4,558.37	78.40	59.141		
8,800.00	7,120.23	3,453.00	3,452.24	43.99	136.12	-23.58	2,913.38	3,475.05	4,587.36	4,507.88	79.48	57.715		
8,900.00	7,120.54	3,453.00	3,452.24	46.22	136.12	-23.58	2,913.38	3,475.05	4,539.62	4,459.04	80.58	56.339		
9,000.00	7,120.85	3,453.00	3,452.24	48.47	136.12	-23.58	2,913.38	3,475.05	4,493.60	4,411.92	81.68	55.014		
9,100.00	7,121.16	3,453.00	3,452.24	50.75	136.12	-23.58	2,913.38	3,475.05	4,449.34	4,366.55	82.79	53.739		
9,200.00	7,121.47	3,453.00	3,452.24	53.05	136.12	-23.58	2,913.38	3,475.05	4,406.92	4,323.00	83.92	52.516		
9,300.00	7,121.78	3,453.00	3,452.24	55.37	136.12	-23.58	2,913.38	3,475.05	4,366.37	4,281.32	85.05	51.342		
9,400.00	7,122.09	3,453.00	3,452.24	57.71	136.12	-23.58	2,913.38	3,475.05	4,327.75	4,241.57	86.18	50.217		
9,500.00	7,122.40	3,453.00	3,452.24	60.06	136.12	-23.58	2,913.38	3,475.05	4,291.12	4,203.79	87.32	49.141		
9,600.00	7,122.71	3,453.00	3,452.24	62.43	136.12	-23.58	2,913.38	3,475.05	4,256.52	4,168.05	88.47	48.113		
9,700.00	7,123.02	3,453.00	3,452.24	64.80	136.12	-23.58	2,913.38	3,475.05	4,224.00	4,134.38	89.62	47.132		
9,800.00	7,123.33	3,453.00	3,452.24	67.19	136.12	-23.58	2,913.38	3,475.05	4,193.62	4,102.84	90.78	46.197		
9,900.00	7,123.65	3,453.00	3,452.24	69.59	136.12	-23.58	2,913.38	3,475.05	4,165.42	4,073.48	91.94	45.307		
10,000.00	7,123.96	3,453.00	3,452.24	71.99	136.12	-23.58	2,913.38	3,475.05	4,139.44	4,046.34	93.10	44.462		
10,100.00	7,124.27	3,453.00	3,452.24	74.40	136.12	-23.58	2,913.38	3,475.05	4,115.73	4,021.46	94.27	43.660		
10,200.00	7,124.58	3,453.00	3,452.24	76.82	136.12	-23.58	2,913.38	3,475.05	4,094.32	3,998.89	95.44	42.901		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 492A - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	7,124.89	3,453.00	3,452.24	79.25	136.12	-23.58	2,913.38	3,475.05	4,075.26	3,978.65	96.61	42.183	
10,400.00	7,125.20	3,453.00	3,452.24	81.68	136.12	-23.58	2,913.38	3,475.05	4,058.57	3,960.79	97.78	41.505	
10,500.00	7,125.51	3,453.00	3,452.24	84.12	136.12	-23.58	2,913.38	3,475.05	4,044.29	3,945.32	98.96	40.867	
10,600.00	7,125.82	3,453.00	3,452.24	86.56	136.12	-23.58	2,913.38	3,475.05	4,032.43	3,932.29	100.14	40.267	
10,700.00	7,126.13	3,453.00	3,452.24	89.01	136.12	-23.58	2,913.38	3,475.05	4,023.03	3,921.71	101.32	39.705	
10,800.00	7,126.44	3,453.00	3,452.24	91.46	136.12	-23.58	2,913.38	3,475.05	4,016.09	3,913.59	102.51	39.179	
10,900.00	7,126.75	3,453.00	3,452.24	93.91	136.12	-23.58	2,913.38	3,475.05	4,011.64	3,907.95	103.69	38.688	
11,000.00	7,127.06	3,453.00	3,452.24	96.37	136.12	-23.58	2,913.38	3,475.05	4,009.68	3,904.80	104.88	38.232	
11,028.72	7,127.15	3,453.00	3,452.24	97.08	136.12	-23.58	2,913.38	3,475.05	4,009.58	3,904.36	105.22	38.107 CC	
11,100.00	7,127.37	3,453.00	3,452.24	98.83	136.12	-23.58	2,913.38	3,475.05	4,010.21	3,904.14	106.07	37.809 ES	
11,200.00	7,127.68	3,453.00	3,452.24	101.30	136.12	-23.58	2,913.38	3,475.05	4,013.23	3,905.98	107.26	37.418	
11,300.00	7,127.99	3,453.00	3,452.24	103.77	136.12	-23.58	2,913.38	3,475.05	4,018.74	3,910.30	108.45	37.058	
11,400.00	7,128.30	3,453.00	3,452.24	106.24	136.12	-23.58	2,913.38	3,475.05	4,026.73	3,917.09	109.64	36.728	
11,500.00	7,128.61	3,453.00	3,452.24	108.71	136.12	-23.58	2,913.38	3,475.05	4,037.18	3,926.35	110.83	36.427	
11,600.00	7,128.92	3,453.00	3,452.24	111.19	136.12	-23.58	2,913.38	3,475.05	4,050.07	3,938.05	112.02	36.153	
11,700.00	7,129.23	3,453.00	3,452.24	113.66	136.12	-23.58	2,913.38	3,475.05	4,065.38	3,952.16	113.22	35.907	
11,800.00	7,129.54	3,453.00	3,452.24	116.14	136.12	-23.58	2,913.38	3,475.05	4,083.08	3,968.67	114.42	35.686	
11,900.00	7,129.85	3,453.00	3,452.24	118.62	136.12	-23.58	2,913.38	3,475.05	4,103.15	3,987.54	115.61	35.491	
12,000.00	7,130.16	3,453.00	3,452.24	121.11	136.12	-23.58	2,913.38	3,475.05	4,125.54	4,008.73	116.81	35.318	
12,100.00	7,130.47	3,453.00	3,452.24	123.59	136.12	-23.58	2,913.38	3,475.05	4,150.22	4,032.21	118.01	35.169	
12,200.00	7,130.78	3,453.00	3,452.24	126.08	136.12	-23.58	2,913.38	3,475.05	4,177.15	4,057.95	119.21	35.041	
12,300.00	7,131.09	3,453.00	3,452.24	128.57	136.12	-23.58	2,913.38	3,475.05	4,206.29	4,085.88	120.41	34.934	
12,400.00	7,131.40	3,453.00	3,452.24	131.06	136.12	-23.58	2,913.38	3,475.05	4,237.58	4,115.98	121.61	34.846	
12,500.00	7,131.71	3,453.00	3,452.24	133.55	136.12	-23.58	2,913.38	3,475.05	4,270.99	4,148.18	122.81	34.778	
12,600.00	7,132.02	3,453.00	3,452.24	136.04	136.12	-23.58	2,913.38	3,475.05	4,306.46	4,182.45	124.01	34.727	
12,700.00	7,132.33	3,453.00	3,452.24	138.54	136.12	-23.58	2,913.38	3,475.05	4,343.95	4,218.74	125.21	34.693	
12,800.00	7,132.64	3,453.00	3,452.24	141.03	136.12	-23.58	2,913.38	3,475.05	4,383.39	4,256.98	126.42	34.675	
12,900.00	7,132.95	3,453.00	3,452.24	143.53	136.12	-23.58	2,913.38	3,475.05	4,424.75	4,297.13	127.62	34.672	
13,000.00	7,133.26	3,453.00	3,452.24	146.02	136.12	-23.58	2,913.38	3,475.05	4,467.96	4,339.14	128.82	34.683	
13,100.00	7,133.57	3,453.00	3,452.24	148.52	136.12	-23.58	2,913.38	3,475.05	4,512.97	4,382.94	130.03	34.708	
13,200.00	7,133.88	3,453.00	3,452.24	151.02	136.12	-23.58	2,913.38	3,475.05	4,559.73	4,428.50	131.23	34.746	
13,300.00	7,134.19	3,453.00	3,452.24	153.52	136.12	-23.58	2,913.38	3,475.05	4,608.19	4,475.75	132.44	34.795	
13,400.00	7,134.50	3,453.00	3,452.24	156.02	136.12	-23.58	2,913.38	3,475.05	4,658.29	4,524.65	133.64	34.857	
13,500.00	7,134.81	3,453.00	3,452.24	158.52	136.12	-23.58	2,913.38	3,475.05	4,709.98	4,575.13	134.85	34.928	
13,600.00	7,135.12	3,453.00	3,452.24	161.03	136.12	-23.58	2,913.38	3,475.05	4,763.21	4,627.16	136.05	35.010	
13,700.00	7,135.43	3,453.00	3,452.24	163.53	136.12	-23.58	2,913.38	3,475.05	4,817.93	4,680.67	137.26	35.101	
13,800.00	7,135.74	3,453.00	3,452.24	166.03	136.12	-23.58	2,913.38	3,475.05	4,874.08	4,735.62	138.47	35.200	
13,900.00	7,136.05	3,453.00	3,452.24	168.54	136.12	-23.58	2,913.38	3,475.05	4,931.63	4,791.95	139.67	35.308	
14,000.00	7,136.36	3,453.00	3,452.24	171.04	136.12	-23.58	2,913.38	3,475.05	4,990.51	4,849.63	140.88	35.423	
14,100.00	7,136.67	3,453.00	3,452.24	173.55	136.12	-23.58	2,913.38	3,475.05	5,050.69	4,908.60	142.09	35.546	
14,200.00	7,136.98	3,453.00	3,452.24	176.05	136.12	-23.58	2,913.38	3,475.05	5,112.12	4,968.82	143.30	35.675	
14,300.00	7,137.29	3,453.00	3,452.24	178.56	136.12	-23.58	2,913.38	3,475.05	5,174.74	5,030.24	144.51	35.810	
14,400.00	7,137.60	3,453.00	3,452.24	181.07	136.12	-23.58	2,913.38	3,475.05	5,238.53	5,092.82	145.71	35.951	
14,500.00	7,137.91	3,453.00	3,452.24	183.58	136.12	-23.58	2,913.38	3,475.05	5,303.44	5,156.52	146.92	36.097	
14,600.00	7,138.22	3,453.00	3,452.24	186.09	136.12	-23.58	2,913.38	3,475.05	5,369.43	5,221.29	148.13	36.247	
14,700.00	7,138.53	3,453.00	3,452.24	188.59	136.12	-23.58	2,913.38	3,475.05	5,436.45	5,287.11	149.34	36.403	
14,800.00	7,138.84	3,453.00	3,452.24	191.10	136.12	-23.58	2,913.38	3,475.05	5,504.48	5,353.92	150.55	36.562	
14,900.00	7,139.15	3,453.00	3,452.24	193.61	136.12	-23.58	2,913.38	3,475.05	5,573.47	5,421.70	151.76	36.725	
15,000.00	7,139.46	3,453.00	3,452.24	196.13	136.12	-23.58	2,913.38	3,475.05	5,643.38	5,490.41	152.97	36.892	
15,100.00	7,139.77	3,453.00	3,452.24	198.64	136.12	-23.58	2,913.38	3,475.05	5,714.20	5,560.01	154.18	37.061	
15,200.00	7,140.08	3,453.00	3,452.24	201.15	136.12	-23.58	2,913.38	3,475.05	5,785.87	5,630.48	155.39	37.234	
15,300.00	7,140.39	3,453.00	3,452.24	203.66	136.12	-23.58	2,913.38	3,475.05	5,858.37	5,701.77	156.60	37.409	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 492A - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,400.00	7,140.70	3,453.00	3,452.24	206.17	136.12	-23.58	2,913.38	3,475.05	5,931.68	5,773.86	157.81	37.587		
15,500.00	7,141.01	3,453.00	3,452.24	208.68	136.12	-23.58	2,913.38	3,475.05	6,005.75	5,846.73	159.02	37.766		
15,600.00	7,141.32	3,453.00	3,452.24	211.20	136.12	-23.58	2,913.38	3,475.05	6,080.57	5,920.33	160.24	37.948		
15,700.00	7,141.63	3,453.00	3,452.24	213.71	136.12	-23.58	2,913.38	3,475.05	6,156.10	5,994.65	161.45	38.131		
15,800.00	7,141.94	3,453.00	3,452.24	216.22	136.12	-23.58	2,913.38	3,475.05	6,232.32	6,069.66	162.66	38.316		
15,900.00	7,142.25	3,453.00	3,452.24	218.74	136.12	-23.58	2,913.38	3,475.05	6,309.21	6,145.34	163.87	38.501		
16,000.00	7,142.56	3,453.00	3,452.24	221.25	136.12	-23.58	2,913.38	3,475.05	6,386.73	6,221.65	165.08	38.689		
16,100.00	7,142.87	3,453.00	3,452.24	223.77	136.12	-23.58	2,913.38	3,475.05	6,464.87	6,298.58	166.29	38.876		
16,200.00	7,143.18	3,453.00	3,452.24	226.28	136.12	-23.58	2,913.38	3,475.05	6,543.61	6,376.11	167.50	39.065		
16,300.00	7,143.49	3,453.00	3,452.24	228.80	136.12	-23.58	2,913.38	3,475.05	6,622.92	6,454.21	168.72	39.255		
16,400.00	7,143.80	3,453.00	3,452.24	231.31	136.12	-23.58	2,913.38	3,475.05	6,702.79	6,532.86	169.93	39.445		
16,500.00	7,144.11	3,453.00	3,452.24	233.83	136.12	-23.58	2,913.38	3,475.05	6,783.19	6,612.04	171.14	39.635		
16,600.00	7,144.42	3,453.00	3,452.24	236.34	136.12	-23.58	2,913.38	3,475.05	6,864.10	6,691.75	172.35	39.826		
16,700.00	7,144.73	3,453.00	3,452.24	238.86	136.12	-23.58	2,913.38	3,475.05	6,945.51	6,771.94	173.57	40.017		
16,800.00	7,145.05	3,453.00	3,452.24	241.37	136.12	-23.58	2,913.38	3,475.05	7,027.40	6,852.62	174.78	40.207		
16,900.00	7,145.36	3,453.00	3,452.24	243.89	136.12	-23.58	2,913.38	3,475.05	7,109.76	6,933.76	175.99	40.398		
17,000.00	7,145.67	3,453.00	3,452.24	246.41	136.12	-23.58	2,913.38	3,475.05	7,192.56	7,015.35	177.20	40.589		
17,100.00	7,145.98	3,453.00	3,452.24	248.93	136.12	-23.58	2,913.38	3,475.05	7,275.79	7,097.37	178.42	40.780		
17,200.00	7,146.29	3,453.00	3,452.24	251.44	136.12	-23.58	2,913.38	3,475.05	7,359.44	7,179.81	179.63	40.970		
17,300.00	7,146.60	3,453.00	3,452.24	253.96	136.12	-23.58	2,913.38	3,475.05	7,443.50	7,262.65	180.84	41.160		
17,400.00	7,146.91	3,453.00	3,452.24	256.48	136.12	-23.58	2,913.38	3,475.05	7,527.94	7,345.89	182.06	41.349		
17,430.36	7,147.00	3,453.00	3,452.24	257.24	136.12	-23.58	2,913.38	3,475.05	7,553.66	7,371.23	182.43	41.407		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 496A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	57.31	0.00	0.00	1.15	82.26	858.75	6,322.02	6,380.08					
100.00	100.00	157.31	100.00	0.08	4.29	82.26	858.75	6,322.02	6,380.08	6,375.70	4.38	1,457.741		
200.00	200.00	257.31	200.00	0.31	8.29	82.26	858.75	6,322.02	6,380.08	6,371.48	8.60	741.744		
300.00	300.00	357.31	300.00	0.53	12.29	82.26	858.75	6,322.02	6,380.08	6,367.25	12.83	497.425		
400.00	400.00	457.31	400.00	0.76	16.29	82.26	858.75	6,322.02	6,380.08	6,363.03	17.05	374.176		
500.00	500.00	557.31	500.00	0.98	20.29	82.26	858.75	6,322.02	6,380.08	6,358.80	21.28	299.876		
600.00	600.00	657.31	600.00	1.21	24.29	82.26	858.75	6,322.02	6,380.08	6,354.58	25.50	250.194		
700.00	700.00	757.31	700.00	1.43	28.29	82.26	858.75	6,322.02	6,380.08	6,350.35	29.73	214.635		
800.00	800.00	857.31	800.00	1.66	32.29	82.26	858.75	6,322.02	6,380.08	6,346.13	33.95	187.925		
900.00	900.00	957.31	900.00	1.88	36.29	82.26	858.75	6,322.02	6,380.08	6,341.90	38.17	167.128		
1,000.00	1,000.00	1,057.31	1,000.00	2.11	40.29	82.26	858.75	6,322.02	6,380.08	6,337.68	42.40	150.475		
1,100.00	1,099.98	1,157.29	1,099.98	2.33	44.29	105.89	858.75	6,322.02	6,380.56	6,333.94	46.62	136.864		
1,200.00	1,199.84	1,257.15	1,199.84	2.56	48.29	105.91	858.75	6,322.02	6,381.99	6,331.16	50.83	125.555		
1,300.00	1,299.45	1,356.76	1,299.45	2.79	52.27	105.93	858.75	6,322.02	6,384.39	6,329.36	55.03	116.013		
1,400.00	1,398.70	1,456.01	1,398.70	3.03	56.24	105.97	858.75	6,322.02	6,387.76	6,328.54	59.22	107.856		
1,500.00	1,497.47	1,554.78	1,497.47	3.30	60.19	106.02	858.75	6,322.02	6,392.12	6,328.71	63.41	100.802		
1,600.00	1,595.62	1,652.93	1,595.62	3.61	64.12	106.08	858.75	6,322.02	6,397.49	6,329.89	67.60	94.639		
1,700.00	1,693.06	1,750.37	1,693.06	3.95	68.01	106.15	858.75	6,322.02	6,403.89	6,332.10	71.78	89.210		
1,800.00	1,789.64	1,846.95	1,789.64	4.35	71.88	106.22	858.75	6,322.02	6,411.34	6,335.36	75.97	84.392		
1,900.00	1,885.30	1,942.61	1,885.30	4.80	75.70	106.33	858.75	6,322.02	6,419.84	6,339.67	80.17	80.075		
2,000.00	1,980.64	2,037.95	1,980.64	5.29	79.52	106.58	858.75	6,322.02	6,428.76	6,344.33	84.43	76.140		
2,100.00	2,075.99	2,133.30	2,075.99	5.80	83.33	106.83	858.75	6,322.02	6,437.81	6,349.10	88.71	72.570		
2,200.00	2,171.34	2,228.65	2,171.34	6.33	87.15	107.07	858.75	6,322.02	6,446.99	6,353.99	93.00	69.319		
2,300.00	2,266.68	2,323.99	2,266.68	6.87	90.96	107.32	858.75	6,322.02	6,456.30	6,358.99	97.31	66.350		
2,400.00	2,362.03	2,419.34	2,362.03	7.41	94.77	107.56	858.75	6,322.02	6,465.73	6,364.12	101.62	63.629		
2,500.00	2,457.38	2,514.69	2,457.38	7.97	98.59	107.80	858.75	6,322.02	6,475.29	6,369.36	105.93	61.127		
2,600.00	2,552.72	2,610.03	2,552.72	8.53	102.40	108.05	858.75	6,322.02	6,484.98	6,374.73	110.25	58.820		
2,700.00	2,648.07	2,705.38	2,648.07	9.10	106.22	108.29	858.75	6,322.02	6,494.79	6,380.22	114.57	56.687		
2,800.00	2,743.42	2,800.73	2,743.42	9.67	110.03	108.53	858.75	6,322.02	6,504.73	6,385.83	118.90	54.709		
2,900.00	2,838.77	2,896.08	2,838.77	10.24	113.84	108.77	858.75	6,322.02	6,514.79	6,391.57	123.22	52.871		
3,000.00	2,934.11	2,991.42	2,934.11	10.82	117.66	109.01	858.75	6,322.02	6,524.98	6,397.43	127.55	51.158		
3,100.00	3,029.46	3,086.77	3,029.46	11.40	121.47	109.25	858.75	6,322.02	6,535.28	6,403.41	131.87	49.558		
3,200.00	3,124.81	3,182.12	3,124.81	11.98	125.28	109.49	858.75	6,322.02	6,545.72	6,409.52	136.20	48.060		
3,300.00	3,220.15	3,277.46	3,220.15	12.56	129.10	109.73	858.75	6,322.02	6,556.27	6,415.75	140.52	46.656		
3,400.00	3,315.50	3,372.81	3,315.50	13.14	132.91	109.97	858.75	6,322.02	6,566.94	6,422.10	144.85	45.337		
3,500.00	3,410.85	3,468.16	3,410.85	13.73	136.73	110.20	858.75	6,322.02	6,577.74	6,428.57	149.17	44.096		
3,600.00	3,506.19	3,563.50	3,506.19	14.32	140.54	110.44	858.75	6,322.02	6,588.66	6,435.16	153.49	42.925		
3,700.00	3,601.54	3,615.00	3,557.69	14.91	142.60	110.57	858.75	6,322.02	6,599.84	6,443.75	156.08	42.284		
3,800.00	3,696.89	3,615.00	3,557.69	15.50	142.60	110.57	858.75	6,322.02	6,612.31	6,455.67	156.64	42.213		
3,900.00	3,792.24	3,615.00	3,557.69	16.09	142.60	110.57	858.75	6,322.02	6,626.27	6,469.07	157.20	42.151		
4,000.00	3,887.58	3,615.00	3,557.69	16.68	142.60	110.57	858.75	6,322.02	6,641.71	6,483.94	157.76	42.099		
4,100.00	3,982.93	3,615.00	3,557.69	17.27	142.60	110.57	858.75	6,322.02	6,658.61	6,500.28	158.33	42.057		
4,200.00	4,078.28	3,615.00	3,557.69	17.86	142.60	110.57	858.75	6,322.02	6,676.97	6,518.08	158.89	42.023		
4,300.00	4,173.62	3,615.00	3,557.69	18.45	142.60	110.57	858.75	6,322.02	6,696.77	6,537.32	159.45	41.999		
4,400.00	4,268.97	3,615.00	3,557.69	19.05	142.60	110.57	858.75	6,322.02	6,718.00	6,557.99	160.01	41.984		
4,500.00	4,364.32	3,615.00	3,557.69	19.64	142.60	110.57	858.75	6,322.02	6,740.65	6,580.07	160.58	41.977 SF		
4,600.00	4,459.67	3,615.00	3,557.69	20.23	142.60	110.57	858.75	6,322.02	6,764.70	6,603.56	161.14	41.980		
4,700.00	4,555.01	3,615.00	3,557.69	20.83	142.60	110.57	858.75	6,322.02	6,790.14	6,628.43	161.71	41.990		
4,800.00	4,650.36	3,615.00	3,557.69	21.42	142.60	110.57	858.75	6,322.02	6,816.95	6,654.67	162.27	42.009		
4,900.00	4,745.71	3,615.00	3,557.69	22.02	142.60	110.57	858.75	6,322.02	6,845.11	6,682.28	162.84	42.036		
5,000.00	4,841.05	3,615.00	3,557.69	22.61	142.60	110.57	858.75	6,322.02	6,874.62	6,711.22	163.40	42.071		
5,100.00	4,936.40	3,615.00	3,557.69	23.21	142.60	110.57	858.75	6,322.02	6,905.45	6,741.48	163.97	42.114		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 496A - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,031.75	3,615.00	3,557.69	23.80	142.60	110.57	858.75	6,322.02	6,937.58	6,773.04	164.54	42.165	
5,300.00	5,127.09	3,615.00	3,557.69	24.40	142.60	110.57	858.75	6,322.02	6,971.00	6,805.90	165.10	42.222	
5,400.00	5,222.44	3,615.00	3,557.69	25.00	142.60	110.57	858.75	6,322.02	7,005.69	6,840.02	165.67	42.287	
5,500.00	5,317.79	3,615.00	3,557.69	25.59	142.60	110.57	858.75	6,322.02	7,041.62	6,875.39	166.24	42.359	
5,600.00	5,413.14	3,615.00	3,557.69	26.19	142.60	110.57	858.75	6,322.02	7,078.79	6,911.99	166.80	42.438	
5,700.00	5,508.48	3,615.00	3,557.69	26.78	142.60	110.58	858.75	6,322.02	7,117.17	6,949.80	167.37	42.524	
5,800.00	5,604.35	3,615.00	3,557.69	27.24	142.60	111.37	858.75	6,322.02	7,156.15	6,988.31	167.84	42.637	
5,900.00	5,701.15	3,615.00	3,557.69	27.65	142.60	112.16	858.75	6,322.02	7,195.15	7,026.88	168.27	42.760	
6,000.00	5,798.77	3,615.00	3,557.69	28.02	142.60	112.94	858.75	6,322.02	7,234.11	7,065.46	168.65	42.894	
6,100.00	5,897.08	3,615.00	3,557.69	28.35	142.60	113.71	858.75	6,322.02	7,272.99	7,104.02	168.98	43.042	
6,200.00	5,995.98	3,615.00	3,557.69	28.63	142.60	114.48	858.75	6,322.02	7,311.75	7,142.51	169.25	43.202	
6,300.00	6,095.33	3,615.00	3,557.69	28.87	142.60	115.24	858.75	6,322.02	7,350.34	7,180.89	169.45	43.377	
6,400.00	6,195.01	3,615.00	3,557.69	29.06	142.60	115.99	858.75	6,322.02	7,388.71	7,219.12	169.59	43.569	
6,500.00	6,294.91	3,615.00	3,557.69	29.20	142.60	116.73	858.75	6,322.02	7,426.83	7,257.17	169.65	43.777	
6,600.00	6,394.89	3,615.00	3,557.69	29.30	142.60	3.75	858.75	6,322.02	7,464.31	7,294.76	169.55	44.025	
6,700.00	6,494.28	3,615.00	3,557.69	29.34	142.60	3.60	858.75	6,322.02	7,493.17	7,326.10	167.08	44.848	
6,800.00	6,591.26	3,615.00	3,557.69	29.31	142.60	3.51	858.75	6,322.02	7,509.75	7,348.39	161.36	46.541	
6,900.00	6,683.95	3,615.00	3,557.69	29.23	142.60	3.49	858.75	6,322.02	7,513.80	7,361.30	152.51	49.268	
7,000.00	6,770.55	3,615.00	3,557.69	29.09	142.60	3.54	858.75	6,322.02	7,505.26	7,364.55	140.71	53.338	
7,100.00	6,849.36	3,615.00	3,557.69	28.92	142.60	3.64	858.75	6,322.02	7,484.26	7,358.03	126.23	59.292	
7,200.00	6,918.86	3,615.00	3,557.69	28.73	142.60	3.83	858.75	6,322.02	7,451.10	7,341.72	109.38	68.119	
7,300.00	6,977.70	3,615.00	3,557.69	28.54	142.60	4.11	858.75	6,322.02	7,406.27	7,315.67	90.60	81.748	
7,400.00	7,027.98	3,615.00	3,557.69	28.35	142.60	4.25	858.75	6,322.02	7,353.50	7,270.68	82.81	88.795	
7,500.00	7,070.01	3,615.00	3,557.69	28.19	142.60	4.71	858.75	6,322.02	7,294.05	7,231.65	62.40	116.890	
7,600.00	7,099.01	3,615.00	3,557.69	28.06	142.60	5.39	858.75	6,322.02	7,224.78	7,182.50	42.28	170.870	
7,700.00	7,114.42	3,615.00	3,557.69	27.97	142.60	6.42	858.75	6,322.02	7,146.78	7,119.99	26.79	266.772	
7,800.00	7,117.13	3,615.00	3,557.69	28.00	142.60	7.29	858.75	6,322.02	7,061.89	7,036.38	25.51	276.785	
7,900.00	7,117.44	3,615.00	3,557.69	28.26	142.60	7.29	858.75	6,322.02	6,976.11	6,949.77	26.35	264.786	
8,000.00	7,117.75	3,615.00	3,557.69	28.94	142.60	7.29	858.75	6,322.02	6,890.71	6,863.53	27.18	253.478	
8,100.00	7,118.06	3,615.00	3,557.69	30.16	142.60	7.29	858.75	6,322.02	6,805.72	6,777.69	28.03	242.822	
8,200.00	7,118.37	3,615.00	3,557.69	31.76	142.60	7.29	858.75	6,322.02	6,721.13	6,692.25	28.87	232.774	
8,300.00	7,118.68	3,615.00	3,557.69	33.58	142.60	7.29	858.75	6,322.02	6,636.97	6,607.25	29.72	223.293	
8,400.00	7,118.99	3,615.00	3,557.69	35.53	142.60	7.29	858.75	6,322.02	6,553.26	6,522.68	30.57	214.337	
8,500.00	7,119.30	3,615.00	3,557.69	37.56	142.60	7.29	858.75	6,322.02	6,470.01	6,438.58	31.43	205.869	
8,600.00	7,119.61	3,615.00	3,557.69	39.66	142.60	7.29	858.75	6,322.02	6,387.24	6,354.96	32.28	197.856	
8,700.00	7,119.92	3,615.00	3,557.69	41.80	142.60	7.29	858.75	6,322.02	6,304.97	6,271.83	33.14	190.263	
8,800.00	7,120.23	3,615.00	3,557.69	43.99	142.60	7.29	858.75	6,322.02	6,223.22	6,189.22	33.99	183.063	
8,900.00	7,120.54	3,615.00	3,557.69	46.22	142.60	7.29	858.75	6,322.02	6,142.01	6,107.15	34.85	176.228	
9,000.00	7,120.85	3,615.00	3,557.69	48.47	142.60	7.29	858.75	6,322.02	6,061.36	6,025.65	35.71	169.733	
9,100.00	7,121.16	3,615.00	3,557.69	50.75	142.60	7.29	858.75	6,322.02	5,981.29	5,944.72	36.57	163.557	
9,200.00	7,121.47	3,615.00	3,557.69	53.05	142.60	7.29	858.75	6,322.02	5,901.84	5,864.41	37.43	157.678	
9,300.00	7,121.78	3,615.00	3,557.69	55.37	142.60	7.29	858.75	6,322.02	5,823.01	5,784.72	38.29	152.077	
9,400.00	7,122.09	3,615.00	3,557.69	57.71	142.60	7.29	858.75	6,322.02	5,744.85	5,705.70	39.15	146.738	
9,500.00	7,122.40	3,615.00	3,557.69	60.06	142.60	7.29	858.75	6,322.02	5,667.37	5,627.36	40.01	141.645	
9,600.00	7,122.71	3,615.00	3,557.69	62.43	142.60	7.29	858.75	6,322.02	5,590.61	5,549.74	40.87	136.782	
9,700.00	7,123.02	3,615.00	3,557.69	64.80	142.60	7.29	858.75	6,322.02	5,514.59	5,472.86	41.73	132.137	
9,800.00	7,123.33	3,615.00	3,557.69	67.19	142.60	7.29	858.75	6,322.02	5,439.35	5,396.75	42.60	127.698	
9,900.00	7,123.65	3,615.00	3,557.69	69.59	142.60	7.29	858.75	6,322.02	5,364.92	5,321.46	43.46	123.452	
10,000.00	7,123.96	3,615.00	3,557.69	71.99	142.60	7.29	858.75	6,322.02	5,291.33	5,247.01	44.32	119.390	
10,100.00	7,124.27	3,615.00	3,557.69	74.40	142.60	7.29	858.75	6,322.02	5,218.62	5,173.43	45.18	115.502	
10,200.00	7,124.58	3,615.00	3,557.69	76.82	142.60	7.29	858.75	6,322.02	5,146.82	5,100.78	46.04	111.779	
10,300.00	7,124.89	3,615.00	3,557.69	79.25	142.60	7.29	858.75	6,322.02	5,075.98	5,029.07	46.91	108.213	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 496A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	3,615.00	3,557.69	81.68	142.60	7.29	858.75	6,322.02	5,006.13	4,958.36	47.77	104.796		
10,500.00	7,125.51	3,615.00	3,557.69	84.12	142.60	7.29	858.75	6,322.02	4,937.33	4,888.69	48.63	101.521		
10,600.00	7,125.82	3,615.00	3,557.69	86.56	142.60	7.29	858.75	6,322.02	4,869.60	4,820.10	49.50	98.383		
10,700.00	7,126.13	3,615.00	3,557.69	89.01	142.60	7.29	858.75	6,322.02	4,803.00	4,752.64	50.36	95.374		
10,800.00	7,126.44	3,615.00	3,557.69	91.46	142.60	7.29	858.75	6,322.02	4,737.58	4,686.35	51.22	92.489		
10,900.00	7,126.75	3,615.00	3,557.69	93.91	142.60	7.29	858.75	6,322.02	4,673.38	4,621.29	52.09	89.723		
11,000.00	7,127.06	3,615.00	3,557.69	96.37	142.60	7.29	858.75	6,322.02	4,610.45	4,557.50	52.95	87.072		
11,100.00	7,127.37	3,615.00	3,557.69	98.83	142.60	7.29	858.75	6,322.02	4,548.85	4,495.04	53.81	84.530		
11,200.00	7,127.68	3,615.00	3,557.69	101.30	142.60	7.29	858.75	6,322.02	4,488.64	4,433.96	54.68	82.093		
11,300.00	7,127.99	3,615.00	3,557.69	103.77	142.60	7.29	858.75	6,322.02	4,429.86	4,374.32	55.54	79.758		
11,400.00	7,128.30	3,615.00	3,557.69	106.24	142.60	7.29	858.75	6,322.02	4,372.58	4,316.18	56.40	77.521		
11,500.00	7,128.61	3,615.00	3,557.69	108.71	142.60	7.29	858.75	6,322.02	4,316.86	4,259.59	57.27	75.379		
11,600.00	7,128.92	3,615.00	3,557.69	111.19	142.60	7.29	858.75	6,322.02	4,262.76	4,204.63	58.13	73.328		
11,700.00	7,129.23	3,615.00	3,557.69	113.66	142.60	7.29	858.75	6,322.02	4,210.33	4,151.34	59.00	71.366		
11,800.00	7,129.54	3,615.00	3,557.69	116.14	142.60	7.29	858.75	6,322.02	4,159.65	4,099.79	59.86	69.489		
11,900.00	7,129.85	3,615.00	3,557.69	118.62	142.60	7.29	858.75	6,322.02	4,110.78	4,050.06	60.72	67.695		
12,000.00	7,130.16	3,615.00	3,557.69	121.11	142.60	7.29	858.75	6,322.02	4,063.78	4,002.20	61.59	65.982		
12,100.00	7,130.47	3,615.00	3,557.69	123.59	142.60	7.29	858.75	6,322.02	4,018.73	3,956.27	62.45	64.348		
12,200.00	7,130.78	3,615.00	3,557.69	126.08	142.60	7.29	858.75	6,322.02	3,975.67	3,912.35	63.32	62.790		
12,300.00	7,131.09	3,615.00	3,557.69	128.57	142.60	7.29	858.75	6,322.02	3,934.69	3,870.51	64.18	61.306		
12,400.00	7,131.40	3,615.00	3,557.69	131.06	142.60	7.29	858.75	6,322.02	3,895.84	3,830.80	65.05	59.894		
12,500.00	7,131.71	3,615.00	3,557.69	133.55	142.60	7.29	858.75	6,322.02	3,859.20	3,793.29	65.91	58.552		
12,600.00	7,132.02	3,615.00	3,557.69	136.04	142.60	7.29	858.75	6,322.02	3,824.81	3,758.04	66.77	57.279		
12,700.00	7,132.33	3,615.00	3,557.69	138.54	142.60	7.29	858.75	6,322.02	3,792.76	3,725.12	67.64	56.074		
12,800.00	7,132.64	3,615.00	3,557.69	141.03	142.60	7.29	858.75	6,322.02	3,763.09	3,694.58	68.50	54.933		
12,900.00	7,132.95	3,615.00	3,557.69	143.53	142.60	7.29	858.75	6,322.02	3,735.86	3,666.49	69.37	53.856		
13,000.00	7,133.26	3,615.00	3,557.69	146.02	142.60	7.29	858.75	6,322.02	3,711.12	3,640.89	70.23	52.841		
13,100.00	7,133.57	3,615.00	3,557.69	148.52	142.60	7.29	858.75	6,322.02	3,688.94	3,617.84	71.10	51.886		
13,200.00	7,133.88	3,615.00	3,557.69	151.02	142.60	7.29	858.75	6,322.02	3,669.34	3,597.38	71.96	50.990		
13,300.00	7,134.19	3,615.00	3,557.69	153.52	142.60	7.29	858.75	6,322.02	3,652.38	3,579.55	72.83	50.152		
13,400.00	7,134.50	3,615.00	3,557.69	156.02	142.60	7.29	858.75	6,322.02	3,638.09	3,564.40	73.69	49.370		
13,500.00	7,134.81	3,615.00	3,557.69	158.52	142.60	7.29	858.75	6,322.02	3,626.50	3,551.94	74.55	48.642		
13,600.00	7,135.12	3,615.00	3,557.69	161.03	142.60	7.29	858.75	6,322.02	3,617.64	3,542.22	75.42	47.967		
13,700.00	7,135.43	3,615.00	3,557.69	163.53	142.60	7.29	858.75	6,322.02	3,611.53	3,535.24	76.28	47.343		
13,800.00	7,135.74	3,615.00	3,557.69	166.03	142.60	7.29	858.75	6,322.02	3,608.17	3,531.03	77.15	46.769		
13,870.95	7,135.96	3,615.00	3,557.69	167.81	142.60	7.29	858.75	6,322.02	3,607.48	3,529.69	77.78	46.379 CC		
13,900.00	7,136.05	3,615.00	3,557.69	168.54	142.60	7.29	858.75	6,322.02	3,607.59	3,529.58	78.01	46.243 ES		
14,000.00	7,136.36	3,615.00	3,557.69	171.04	142.60	7.29	858.75	6,322.02	3,609.78	3,530.91	78.88	45.764		
14,100.00	7,136.67	3,615.00	3,557.69	173.55	142.60	7.29	858.75	6,322.02	3,614.74	3,535.00	79.74	45.330		
14,200.00	7,136.98	3,615.00	3,557.69	176.05	142.60	7.29	858.75	6,322.02	3,622.45	3,541.85	80.61	44.939		
14,300.00	7,137.29	3,615.00	3,557.69	178.56	142.60	7.29	858.75	6,322.02	3,632.90	3,551.43	81.47	44.591		
14,400.00	7,137.60	3,615.00	3,557.69	181.07	142.60	7.29	858.75	6,322.02	3,646.06	3,563.73	82.34	44.282		
14,500.00	7,137.91	3,615.00	3,557.69	183.58	142.60	7.29	858.75	6,322.02	3,661.91	3,578.71	83.20	44.012		
14,600.00	7,138.22	3,615.00	3,557.69	186.09	142.60	7.29	858.75	6,322.02	3,680.41	3,596.34	84.07	43.780		
14,700.00	7,138.53	3,615.00	3,557.69	188.59	142.60	7.29	858.75	6,322.02	3,701.51	3,616.58	84.93	43.582		
14,800.00	7,138.84	3,615.00	3,557.69	191.10	142.60	7.29	858.75	6,322.02	3,725.19	3,639.39	85.80	43.419		
14,900.00	7,139.15	3,615.00	3,557.69	193.61	142.60	7.29	858.75	6,322.02	3,751.38	3,664.72	86.66	43.288		
15,000.00	7,139.46	3,615.00	3,557.69	196.13	142.60	7.29	858.75	6,322.02	3,780.03	3,692.51	87.53	43.188		
15,100.00	7,139.77	3,615.00	3,557.69	198.64	142.60	7.29	858.75	6,322.02	3,811.10	3,722.71	88.39	43.117		
15,200.00	7,140.08	3,615.00	3,557.69	201.15	142.60	7.29	858.75	6,322.02	3,844.51	3,755.26	89.26	43.073		
15,300.00	7,140.39	3,615.00	3,557.69	203.66	142.60	7.29	858.75	6,322.02	3,880.22	3,790.10	90.12	43.056		
15,400.00	7,140.70	3,615.00	3,557.69	206.17	142.60	7.29	858.75	6,322.02	3,918.15	3,827.16	90.98	43.064		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 496A - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)					
15,500.00	7,141.01	3,615.00	3,557.69	208.68	142.60	7.29	858.75	6,322.02	3,958.24	3,866.39	91.85	43.095	
15,600.00	7,141.32	3,615.00	3,557.69	211.20	142.60	7.29	858.75	6,322.02	4,000.44	3,907.72	92.71	43.148	
15,700.00	7,141.63	3,615.00	3,557.69	213.71	142.60	7.29	858.75	6,322.02	4,044.66	3,951.09	93.58	43.222	
15,800.00	7,141.94	3,615.00	3,557.69	216.22	142.60	7.29	858.75	6,322.02	4,090.86	3,996.41	94.44	43.315	
15,900.00	7,142.25	3,615.00	3,557.69	218.74	142.60	7.29	858.75	6,322.02	4,138.95	4,043.64	95.31	43.427	
16,000.00	7,142.56	3,615.00	3,557.69	221.25	142.60	7.29	858.75	6,322.02	4,188.88	4,092.71	96.17	43.555	
16,100.00	7,142.87	3,615.00	3,557.69	223.77	142.60	7.29	858.75	6,322.02	4,240.58	4,143.54	97.04	43.700	
16,200.00	7,143.18	3,615.00	3,557.69	226.28	142.60	7.29	858.75	6,322.02	4,293.99	4,196.09	97.90	43.859	
16,300.00	7,143.49	3,615.00	3,557.69	228.80	142.60	7.29	858.75	6,322.02	4,349.04	4,250.27	98.77	44.033	
16,400.00	7,143.80	3,615.00	3,557.69	231.31	142.60	7.29	858.75	6,322.02	4,405.68	4,306.04	99.63	44.219	
16,500.00	7,144.11	3,615.00	3,557.69	233.83	142.60	7.29	858.75	6,322.02	4,463.83	4,363.33	100.50	44.417	
16,600.00	7,144.42	3,615.00	3,557.69	236.34	142.60	7.29	858.75	6,322.02	4,523.45	4,422.09	101.36	44.626	
16,700.00	7,144.73	3,615.00	3,557.69	238.86	142.60	7.29	858.75	6,322.02	4,584.48	4,482.25	102.23	44.845	
16,800.00	7,145.05	3,615.00	3,557.69	241.37	142.60	7.29	858.75	6,322.02	4,646.85	4,543.76	103.09	45.074	
16,900.00	7,145.36	3,615.00	3,557.69	243.89	142.60	7.29	858.75	6,322.02	4,710.52	4,606.57	103.96	45.312	
17,000.00	7,145.67	3,615.00	3,557.69	246.41	142.60	7.29	858.75	6,322.02	4,775.44	4,670.62	104.82	45.557	
17,100.00	7,145.98	3,615.00	3,557.69	248.93	142.60	7.29	858.75	6,322.02	4,841.55	4,735.87	105.69	45.810	
17,200.00	7,146.29	3,615.00	3,557.69	251.44	142.60	7.29	858.75	6,322.02	4,908.81	4,802.26	106.55	46.069	
17,300.00	7,146.60	3,615.00	3,557.69	253.96	142.60	7.29	858.75	6,322.02	4,977.18	4,869.76	107.42	46.335	
17,400.00	7,146.91	3,615.00	3,557.69	256.48	142.60	7.29	858.75	6,322.02	5,046.59	4,938.31	108.28	46.605	
17,430.36	7,147.00	3,615.00	3,557.69	257.24	142.60	7.29	858.75	6,322.02	5,067.87	4,959.32	108.55	46.689	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	66.61	0.00	0.00	174.11	-1,870.03	192.79	1,881.12					
100.00	100.00	33.39	100.00	0.08	0.67	174.11	-1,870.03	192.79	1,879.94	1,879.19	0.75	2,499.189		
200.00	200.00	133.39	200.00	0.31	3.34	174.11	-1,870.03	192.79	1,879.94	1,876.30	3.64	515.808		
300.00	300.00	233.39	300.00	0.53	7.34	174.11	-1,870.03	192.79	1,879.94	1,872.07	7.87	238.892		
400.00	400.00	333.39	400.00	0.76	11.34	174.11	-1,870.03	192.79	1,879.94	1,867.85	12.09	155.442		
500.00	500.00	433.39	500.00	0.98	15.34	174.11	-1,870.03	192.79	1,879.94	1,863.62	16.32	115.200		
600.00	600.00	533.39	600.00	1.21	19.34	174.11	-1,870.03	192.79	1,879.94	1,859.40	20.54	91.509		
700.00	700.00	633.39	700.00	1.43	23.34	174.11	-1,870.03	192.79	1,879.94	1,855.17	24.77	75.901		
800.00	800.00	733.39	800.00	1.66	27.34	174.11	-1,870.03	192.79	1,879.94	1,850.95	28.99	64.841		
900.00	900.00	833.39	900.00	1.88	31.34	174.11	-1,870.03	192.79	1,879.94	1,846.72	33.22	56.594		
1,000.00	1,000.00	933.39	1,000.00	2.11	35.34	174.11	-1,870.03	192.79	1,879.94	1,842.50	37.44	50.208 CC		
1,100.00	1,099.98	1,033.37	1,099.98	2.33	39.33	-162.27	-1,870.03	192.79	1,881.60	1,839.96	41.64	45.182 ES		
1,200.00	1,199.84	1,133.23	1,199.84	2.56	43.33	-162.29	-1,870.03	192.79	1,886.59	1,840.80	45.79	41.201		
1,300.00	1,299.45	1,232.84	1,299.45	2.79	47.31	-162.32	-1,870.03	192.79	1,894.90	1,845.03	49.86	38.003		
1,400.00	1,398.70	1,332.09	1,398.70	3.03	51.28	-162.36	-1,870.03	192.79	1,906.52	1,852.67	53.84	35.408		
1,500.00	1,497.47	1,430.86	1,497.47	3.30	55.23	-162.41	-1,870.03	192.79	1,921.44	1,863.72	57.72	33.289		
1,600.00	1,595.62	1,529.01	1,595.62	3.61	59.16	-162.47	-1,870.03	192.79	1,939.66	1,878.19	61.47	31.552		
1,700.00	1,693.06	1,626.45	1,693.06	3.95	63.06	-162.54	-1,870.03	192.79	1,961.17	1,896.07	65.09	30.129		
1,800.00	1,789.64	1,723.03	1,789.64	4.35	66.92	-162.61	-1,870.03	192.79	1,985.93	1,917.37	68.56	28.966		
1,900.00	1,885.30	1,818.69	1,885.30	4.80	70.75	-162.72	-1,870.03	192.79	2,013.86	1,941.84	72.02	27.961		
2,000.00	1,980.64	1,914.03	1,980.64	5.29	74.56	-162.97	-1,870.03	192.79	2,042.79	1,966.83	75.96	26.893		
2,100.00	2,075.99	2,009.38	2,075.99	5.80	78.38	-163.22	-1,870.03	192.79	2,071.74	1,991.84	79.90	25.928		
2,200.00	2,171.34	2,104.73	2,171.34	6.33	82.19	-163.45	-1,870.03	192.79	2,100.74	2,016.89	83.85	25.053		
2,300.00	2,266.68	2,200.07	2,266.68	6.87	86.00	-163.68	-1,870.03	192.79	2,129.76	2,041.96	87.80	24.256		
2,400.00	2,362.03	2,295.42	2,362.03	7.41	89.82	-163.91	-1,870.03	192.79	2,158.81	2,067.06	91.76	23.528		
2,500.00	2,457.38	2,390.77	2,457.38	7.97	93.63	-164.13	-1,870.03	192.79	2,187.90	2,092.19	95.71	22.859		
2,600.00	2,552.72	2,486.11	2,552.72	8.53	97.44	-164.34	-1,870.03	192.79	2,217.01	2,117.34	99.67	22.244		
2,700.00	2,648.07	2,581.46	2,648.07	9.10	101.26	-164.55	-1,870.03	192.79	2,246.15	2,142.52	103.63	21.676		
2,800.00	2,743.42	2,676.81	2,743.42	9.67	105.07	-164.75	-1,870.03	192.79	2,275.31	2,167.73	107.58	21.149		
2,900.00	2,838.77	2,772.16	2,838.77	10.24	108.89	-164.94	-1,870.03	192.79	2,304.51	2,192.96	111.54	20.660		
3,000.00	2,934.11	2,867.50	2,934.11	10.82	112.70	-165.14	-1,870.03	192.79	2,333.72	2,218.22	115.50	20.205		
3,100.00	3,029.46	2,962.85	3,029.46	11.40	116.51	-165.32	-1,870.03	192.79	2,362.96	2,243.50	119.46	19.780		
3,200.00	3,124.81	3,058.20	3,124.81	11.98	120.33	-165.50	-1,870.03	192.79	2,392.22	2,268.80	123.42	19.382		
3,300.00	3,220.15	3,153.54	3,220.15	12.56	124.14	-165.68	-1,870.03	192.79	2,421.50	2,294.12	127.38	19.010		
3,400.00	3,315.50	3,248.89	3,315.50	13.14	127.96	-165.86	-1,870.03	192.79	2,450.81	2,319.47	131.34	18.660		
3,500.00	3,410.85	3,344.24	3,410.85	13.73	131.77	-166.03	-1,870.03	192.79	2,480.13	2,344.83	135.30	18.330		
3,600.00	3,506.19	3,385.00	3,506.19	14.32	133.40	-166.10	-1,870.03	192.79	2,510.07	2,372.89	137.18	18.297 SF		
3,700.00	3,601.54	3,385.00	3,601.54	14.91	133.40	-166.10	-1,870.03	192.79	2,543.26	2,405.75	137.52	18.494		
3,800.00	3,696.89	3,385.00	3,696.89	15.50	133.40	-166.10	-1,870.03	192.79	2,579.91	2,442.06	137.85	18.715		
3,900.00	3,792.24	3,385.00	3,792.24	16.09	133.40	-166.10	-1,870.03	192.79	2,619.86	2,481.68	138.18	18.959		
4,000.00	3,887.58	3,385.00	3,887.58	16.68	133.40	-166.10	-1,870.03	192.79	2,662.97	2,524.45	138.52	19.225		
4,100.00	3,982.93	3,385.00	3,982.93	17.27	133.40	-166.10	-1,870.03	192.79	2,709.08	2,570.23	138.85	19.511		
4,200.00	4,078.28	3,385.00	4,078.28	17.86	133.40	-166.10	-1,870.03	192.79	2,758.05	2,618.87	139.19	19.816		
4,300.00	4,173.62	3,385.00	4,173.62	18.45	133.40	-166.10	-1,870.03	192.79	2,809.73	2,670.21	139.52	20.138		
4,400.00	4,268.97	3,385.00	4,268.97	19.05	133.40	-166.10	-1,870.03	192.79	2,863.97	2,724.11	139.86	20.478		
4,500.00	4,364.32	3,385.00	4,364.32	19.64	133.40	-166.10	-1,870.03	192.79	2,920.63	2,780.43	140.19	20.833		
4,600.00	4,459.67	3,385.00	4,459.67	20.23	133.40	-166.10	-1,870.03	192.79	2,979.56	2,839.03	140.53	21.202		
4,700.00	4,555.01	3,385.00	4,555.01	20.83	133.40	-166.10	-1,870.03	192.79	3,040.65	2,899.78	140.87	21.585		
4,800.00	4,650.36	3,385.00	4,650.36	21.42	133.40	-166.10	-1,870.03	192.79	3,103.75	2,962.54	141.21	21.980		
4,900.00	4,745.71	3,385.00	4,745.71	22.02	133.40	-166.10	-1,870.03	192.79	3,168.75	3,027.21	141.54	22.387		
5,000.00	4,841.05	3,385.00	4,841.05	22.61	133.40	-166.10	-1,870.03	192.79	3,235.54	3,093.66	141.88	22.805		
5,100.00	4,936.40	3,385.00	4,936.40	23.21	133.40	-166.10	-1,870.03	192.79	3,304.01	3,161.79	142.22	23.232		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,031.75	3,385.00	3,451.61	23.80	133.40	-166.10	-1,870.03	192.79	3,374.05	3,231.49	142.56	23.668	
5,300.00	5,127.09	3,385.00	3,451.61	24.40	133.40	-166.10	-1,870.03	192.79	3,445.57	3,302.67	142.90	24.112	
5,400.00	5,222.44	3,385.00	3,451.61	25.00	133.40	-166.10	-1,870.03	192.79	3,518.47	3,375.24	143.23	24.564	
5,500.00	5,317.79	3,385.00	3,451.61	25.59	133.40	-166.10	-1,870.03	192.79	3,592.69	3,449.11	143.57	25.023	
5,600.00	5,413.14	3,385.00	3,451.61	26.19	133.40	-166.10	-1,870.03	192.79	3,668.12	3,524.21	143.91	25.489	
5,700.00	5,508.48	3,385.00	3,451.61	26.78	133.40	-166.11	-1,870.03	192.79	3,744.71	3,600.44	144.27	25.957	
5,800.00	5,604.35	3,385.00	3,451.61	27.24	133.40	-166.67	-1,870.03	192.79	3,821.28	3,675.58	145.70	26.227	
5,900.00	5,701.15	3,385.00	3,451.61	27.65	133.40	-167.19	-1,870.03	192.79	3,896.74	3,749.77	146.97	26.514	
6,000.00	5,798.77	3,385.00	3,451.61	28.02	133.40	-167.67	-1,870.03	192.79	3,971.08	3,823.01	148.07	26.819	
6,100.00	5,897.08	3,385.00	3,451.61	28.35	133.40	-168.12	-1,870.03	192.79	4,044.26	3,895.26	149.00	27.143	
6,200.00	5,995.98	3,385.00	3,451.61	28.63	133.40	-168.54	-1,870.03	192.79	4,116.26	3,966.52	149.75	27.488	
6,300.00	6,095.33	3,385.00	3,451.61	28.87	133.40	-168.93	-1,870.03	192.79	4,187.06	4,036.75	150.32	27.855	
6,400.00	6,195.01	3,385.00	3,451.61	29.06	133.40	-169.30	-1,870.03	192.79	4,256.63	4,105.93	150.70	28.246	
6,500.00	6,294.91	3,385.00	3,451.61	29.20	133.40	-169.64	-1,870.03	192.79	4,324.95	4,174.05	150.90	28.662	
6,600.00	6,394.89	3,385.00	3,451.61	29.30	133.40	74.97	-1,870.03	192.79	4,391.99	4,241.28	150.71	29.141	
6,700.00	6,494.28	3,385.00	3,451.61	29.34	133.40	68.39	-1,870.03	192.79	4,457.47	4,307.66	149.82	29.753	
6,800.00	6,591.26	3,385.00	3,451.61	29.31	133.40	62.51	-1,870.03	192.79	4,520.34	4,371.98	148.37	30.467	
6,900.00	6,683.95	3,385.00	3,451.61	29.23	133.40	57.43	-1,870.03	192.79	4,579.51	4,433.84	145.66	31.439	
7,000.00	6,770.55	3,385.00	3,451.61	29.09	133.40	53.16	-1,870.03	192.79	4,633.98	4,492.71	141.27	32.802	
7,100.00	6,849.36	3,385.00	3,451.61	28.92	133.40	49.65	-1,870.03	192.79	4,682.88	4,547.63	135.24	34.625	
7,200.00	6,918.86	3,385.00	3,451.61	28.73	133.40	46.84	-1,870.03	192.79	4,725.44	4,597.55	127.89	36.950	
7,300.00	6,977.70	3,385.00	3,451.61	28.54	133.40	44.66	-1,870.03	192.79	4,761.02	4,641.15	119.86	39.721	
7,400.00	7,027.98	3,385.00	3,451.61	28.35	133.40	43.94	-1,870.03	192.79	4,791.63	4,674.38	117.25	40.867	
7,500.00	7,070.01	3,385.00	3,451.61	28.19	133.40	42.46	-1,870.03	192.79	4,817.70	4,707.84	109.86	43.852	
7,600.00	7,099.01	3,385.00	3,451.61	28.06	133.40	41.48	-1,870.03	192.79	4,835.72	4,731.36	104.36	46.339	
7,700.00	7,114.42	3,385.00	3,451.61	27.97	133.40	40.96	-1,870.03	192.79	4,845.41	4,743.57	101.83	47.581	
7,800.00	7,117.13	3,385.00	3,451.61	28.00	133.40	40.87	-1,870.03	192.79	4,847.54	4,744.92	102.62	47.239	
7,900.00	7,117.44	3,385.00	3,451.61	28.26	133.40	40.87	-1,870.03	192.79	4,849.92	4,745.78	104.14	46.571	
8,000.00	7,117.75	3,385.00	3,451.61	28.94	133.40	40.87	-1,870.03	192.79	4,854.35	4,748.58	105.78	45.892	
8,100.00	7,118.06	3,385.00	3,451.61	30.16	133.40	40.87	-1,870.03	192.79	4,860.84	4,753.34	107.50	45.216	
8,200.00	7,118.37	3,385.00	3,451.61	31.76	133.40	40.87	-1,870.03	192.79	4,869.38	4,760.08	109.30	44.552	
8,300.00	7,118.68	3,385.00	3,451.61	33.58	133.40	40.87	-1,870.03	192.79	4,879.95	4,768.81	111.14	43.908	
8,400.00	7,118.99	3,385.00	3,451.61	35.53	133.40	40.87	-1,870.03	192.79	4,892.54	4,779.51	113.03	43.286	
8,500.00	7,119.30	3,385.00	3,451.61	37.56	133.40	40.87	-1,870.03	192.79	4,907.14	4,792.19	114.95	42.691	
8,600.00	7,119.61	3,385.00	3,451.61	39.66	133.40	40.87	-1,870.03	192.79	4,923.73	4,806.83	116.89	42.122	
8,700.00	7,119.92	3,385.00	3,451.61	41.80	133.40	40.87	-1,870.03	192.79	4,942.28	4,823.42	118.86	41.580	
8,800.00	7,120.23	3,385.00	3,451.61	43.99	133.40	40.87	-1,870.03	192.79	4,962.78	4,841.93	120.85	41.067	
8,900.00	7,120.54	3,385.00	3,451.61	46.22	133.40	40.87	-1,870.03	192.79	4,985.20	4,862.35	122.85	40.580	
9,000.00	7,120.85	3,385.00	3,451.61	48.47	133.40	40.87	-1,870.03	192.79	5,009.52	4,884.66	124.86	40.121	
9,100.00	7,121.16	3,385.00	3,451.61	50.75	133.40	40.87	-1,870.03	192.79	5,035.71	4,908.82	126.88	39.687	
9,200.00	7,121.47	3,385.00	3,451.61	53.05	133.40	40.87	-1,870.03	192.79	5,063.73	4,934.82	128.92	39.279	
9,300.00	7,121.78	3,385.00	3,451.61	55.37	133.40	40.87	-1,870.03	192.79	5,093.57	4,962.61	130.96	38.895	
9,400.00	7,122.09	3,385.00	3,451.61	57.71	133.40	40.87	-1,870.03	192.79	5,125.18	4,992.18	133.00	38.534	
9,500.00	7,122.40	3,385.00	3,451.61	60.06	133.40	40.87	-1,870.03	192.79	5,158.54	5,023.48	135.06	38.195	
9,600.00	7,122.71	3,385.00	3,451.61	62.43	133.40	40.87	-1,870.03	192.79	5,193.61	5,056.50	137.12	37.878	
9,700.00	7,123.02	3,385.00	3,451.61	64.80	133.40	40.87	-1,870.03	192.79	5,230.36	5,091.18	139.18	37.580	
9,800.00	7,123.33	3,385.00	3,451.61	67.19	133.40	40.87	-1,870.03	192.79	5,268.75	5,127.50	141.24	37.302	
9,900.00	7,123.65	3,385.00	3,451.61	69.59	133.40	40.87	-1,870.03	192.79	5,308.74	5,165.43	143.31	37.043	
10,000.00	7,123.96	3,385.00	3,451.61	71.99	133.40	40.87	-1,870.03	192.79	5,350.31	5,204.92	145.39	36.801	
10,100.00	7,124.27	3,385.00	3,451.61	74.40	133.40	40.87	-1,870.03	192.79	5,393.41	5,245.95	147.46	36.575	
10,200.00	7,124.58	3,385.00	3,451.61	76.82	133.40	40.87	-1,870.03	192.79	5,438.01	5,288.46	149.54	36.365	
10,300.00	7,124.89	3,385.00	3,451.61	79.25	133.40	40.87	-1,870.03	192.79	5,484.06	5,332.44	151.62	36.169	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)						
10,400.00	7,125.20	3,385.00	3,451.61	81.68	133.40	40.87	-1,870.03	192.79	5,531.55	5,377.84	153.70	35.988		
10,500.00	7,125.51	3,385.00	3,451.61	84.12	133.40	40.87	-1,870.03	192.79	5,580.42	5,424.63	155.79	35.820		
10,600.00	7,125.82	3,385.00	3,451.61	86.56	133.40	40.87	-1,870.03	192.79	5,630.64	5,472.77	157.88	35.665		
10,700.00	7,126.13	3,385.00	3,451.61	89.01	133.40	40.87	-1,870.03	192.79	5,682.18	5,522.22	159.96	35.522		
10,800.00	7,126.44	3,385.00	3,451.61	91.46	133.40	40.87	-1,870.03	192.79	5,735.00	5,572.95	162.05	35.390		
10,900.00	7,126.75	3,385.00	3,451.61	93.91	133.40	40.87	-1,870.03	192.79	5,789.06	5,624.92	164.14	35.268		
11,000.00	7,127.06	3,385.00	3,451.61	96.37	133.40	40.87	-1,870.03	192.79	5,844.34	5,678.11	166.23	35.157		
11,100.00	7,127.37	3,385.00	3,451.61	98.83	133.40	40.87	-1,870.03	192.79	5,900.79	5,732.47	168.33	35.055		
11,200.00	7,127.68	3,385.00	3,451.61	101.30	133.40	40.87	-1,870.03	192.79	5,958.39	5,787.97	170.42	34.963		
11,300.00	7,127.99	3,385.00	3,451.61	103.77	133.40	40.87	-1,870.03	192.79	6,017.10	5,844.58	172.52	34.878		
11,400.00	7,128.30	3,385.00	3,451.61	106.24	133.40	40.87	-1,870.03	192.79	6,076.88	5,902.27	174.61	34.802		
11,500.00	7,128.61	3,385.00	3,451.61	108.71	133.40	40.87	-1,870.03	192.79	6,137.72	5,961.01	176.71	34.734		
11,600.00	7,128.92	3,385.00	3,451.61	111.19	133.40	40.87	-1,870.03	192.79	6,199.57	6,020.76	178.81	34.672		
11,700.00	7,129.23	3,385.00	3,451.61	113.66	133.40	40.87	-1,870.03	192.79	6,262.40	6,081.50	180.90	34.617		
11,800.00	7,129.54	3,385.00	3,451.61	116.14	133.40	40.87	-1,870.03	192.79	6,326.19	6,143.19	183.00	34.569		
11,900.00	7,129.85	3,385.00	3,451.61	118.62	133.40	40.87	-1,870.03	192.79	6,390.91	6,205.81	185.10	34.526		
12,000.00	7,130.16	3,385.00	3,451.61	121.11	133.40	40.87	-1,870.03	192.79	6,456.53	6,269.33	187.20	34.490		
12,100.00	7,130.47	3,385.00	3,451.61	123.59	133.40	40.87	-1,870.03	192.79	6,523.03	6,333.73	189.30	34.458		
12,200.00	7,130.78	3,385.00	3,451.61	126.08	133.40	40.87	-1,870.03	192.79	6,590.37	6,398.96	191.40	34.432		
12,300.00	7,131.09	3,385.00	3,451.61	128.57	133.40	40.87	-1,870.03	192.79	6,658.53	6,465.02	193.50	34.410		
12,400.00	7,131.40	3,385.00	3,451.61	131.06	133.40	40.87	-1,870.03	192.79	6,727.48	6,531.88	195.61	34.393		
12,500.00	7,131.71	3,385.00	3,451.61	133.55	133.40	40.87	-1,870.03	192.79	6,797.21	6,599.50	197.71	34.380		
12,600.00	7,132.02	3,385.00	3,451.61	136.04	133.40	40.87	-1,870.03	192.79	6,867.69	6,667.88	199.81	34.371		
12,700.00	7,132.33	3,385.00	3,451.61	138.54	133.40	40.87	-1,870.03	192.79	6,938.89	6,736.98	201.91	34.365		
12,800.00	7,132.64	3,385.00	3,451.61	141.03	133.40	40.87	-1,870.03	192.79	7,010.80	6,806.78	204.02	34.364		
12,900.00	7,132.95	3,385.00	3,451.61	143.53	133.40	40.87	-1,870.03	192.79	7,083.38	6,877.26	206.12	34.365		
13,000.00	7,133.26	3,385.00	3,451.61	146.02	133.40	40.87	-1,870.03	192.79	7,156.63	6,948.40	208.23	34.370		
13,100.00	7,133.57	3,385.00	3,451.61	148.52	133.40	40.87	-1,870.03	192.79	7,230.52	7,020.19	210.33	34.377		
13,200.00	7,133.88	3,385.00	3,451.61	151.02	133.40	40.87	-1,870.03	192.79	7,305.03	7,092.60	212.43	34.387		
13,300.00	7,134.19	3,385.00	3,451.61	153.52	133.40	40.87	-1,870.03	192.79	7,380.14	7,165.60	214.54	34.400		
13,400.00	7,134.50	3,385.00	3,451.61	156.02	133.40	40.87	-1,870.03	192.79	7,455.84	7,239.20	216.65	34.415		
13,500.00	7,134.81	3,385.00	3,451.61	158.52	133.40	40.87	-1,870.03	192.79	7,532.11	7,313.36	218.75	34.432		
13,600.00	7,135.12	3,385.00	3,451.61	161.03	133.40	40.87	-1,870.03	192.79	7,608.92	7,388.06	220.86	34.452		
13,700.00	7,135.43	3,385.00	3,451.61	163.53	133.40	40.87	-1,870.03	192.79	7,686.27	7,463.31	222.96	34.473		
13,800.00	7,135.74	3,385.00	3,451.61	166.03	133.40	40.87	-1,870.03	192.79	7,764.13	7,539.07	225.07	34.497		
13,900.00	7,136.05	3,385.00	3,451.61	168.54	133.40	40.87	-1,870.03	192.79	7,842.50	7,615.33	227.17	34.522		
14,000.00	7,136.36	3,385.00	3,451.61	171.04	133.40	40.87	-1,870.03	192.79	7,921.36	7,692.07	229.28	34.549		
14,100.00	7,136.67	3,385.00	3,451.61	173.55	133.40	40.87	-1,870.03	192.79	8,000.68	7,769.30	231.39	34.577		
14,200.00	7,136.98	3,385.00	3,451.61	176.05	133.40	40.87	-1,870.03	192.79	8,080.47	7,846.97	233.49	34.607		
14,300.00	7,137.29	3,385.00	3,451.61	178.56	133.40	40.87	-1,870.03	192.79	8,160.70	7,925.10	235.60	34.638		
14,400.00	7,137.60	3,385.00	3,451.61	181.07	133.40	40.87	-1,870.03	192.79	8,241.36	8,003.66	237.71	34.670		
14,500.00	7,137.91	3,385.00	3,451.61	183.58	133.40	40.87	-1,870.03	192.79	8,322.45	8,082.63	239.82	34.703		
14,600.00	7,138.22	3,385.00	3,451.61	186.09	133.40	40.87	-1,870.03	192.79	8,403.94	8,162.02	241.92	34.738		
14,700.00	7,138.53	3,385.00	3,451.61	188.59	133.40	40.87	-1,870.03	192.79	8,485.83	8,241.79	244.03	34.773		
14,800.00	7,138.84	3,385.00	3,451.61	191.10	133.40	40.87	-1,870.03	192.79	8,568.10	8,321.96	246.14	34.810		
14,900.00	7,139.15	3,385.00	3,451.61	193.61	133.40	40.87	-1,870.03	192.79	8,650.74	8,402.50	248.25	34.847		
15,000.00	7,139.46	3,385.00	3,451.61	196.13	133.40	40.87	-1,870.03	192.79	8,733.75	8,483.40	250.36	34.885		
15,100.00	7,139.77	3,385.00	3,451.61	198.64	133.40	40.87	-1,870.03	192.79	8,817.11	8,564.65	252.46	34.924		
15,200.00	7,140.08	3,385.00	3,451.61	201.15	133.40	40.87	-1,870.03	192.79	8,900.82	8,646.24	254.57	34.964		
15,300.00	7,140.39	3,385.00	3,451.61	203.66	133.40	40.87	-1,870.03	192.79	8,984.85	8,728.17	256.68	35.004		
15,400.00	7,140.70	3,385.00	3,451.61	206.17	133.40	40.87	-1,870.03	192.79	9,069.21	8,810.42	258.79	35.045		
15,500.00	7,141.01	3,385.00	3,451.61	208.68	133.40	40.87	-1,870.03	192.79	9,153.89	8,892.99	260.90	35.086		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498 - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	7,141.32	3,385.00	3,451.61	211.20	133.40	40.87	-1,870.03	192.79	9,238.87	8,975.86	263.01	35.128	
15,700.00	7,141.63	3,385.00	3,451.61	213.71	133.40	40.87	-1,870.03	192.79	9,324.15	9,059.03	265.12	35.170	
15,800.00	7,141.94	3,385.00	3,451.61	216.22	133.40	40.87	-1,870.03	192.79	9,409.72	9,142.49	267.22	35.213	
15,900.00	7,142.25	3,385.00	3,451.61	218.74	133.40	40.87	-1,870.03	192.79	9,495.57	9,226.24	269.33	35.256	
16,000.00	7,142.56	3,385.00	3,451.61	221.25	133.40	40.87	-1,870.03	192.79	9,581.70	9,310.25	271.44	35.299	
16,100.00	7,142.87	3,385.00	3,451.61	223.77	133.40	40.87	-1,870.03	192.79	9,668.09	9,394.54	273.55	35.343	
16,200.00	7,143.18	3,385.00	3,451.61	226.28	133.40	40.87	-1,870.03	192.79	9,754.74	9,479.08	275.66	35.387	
16,300.00	7,143.49	3,385.00	3,451.61	228.80	133.40	40.87	-1,870.03	192.79	9,841.65	9,563.88	277.77	35.431	
16,400.00	7,143.80	3,385.00	3,451.61	231.31	133.40	40.87	-1,870.03	192.79	9,928.80	9,648.92	279.88	35.475	
16,500.00	7,144.11	3,385.00	3,451.61	233.83	133.40	40.87	-1,870.03	192.79	10,016.20	9,734.21	281.99	35.520	
16,600.00	7,144.42	3,385.00	3,451.61	236.34	133.40	40.87	-1,870.03	192.79	10,103.82	9,819.72	284.10	35.564	
16,700.00	7,144.73	3,385.00	3,451.61	238.86	133.40	40.87	-1,870.03	192.79	10,191.68	9,905.47	286.21	35.609	
16,800.00	7,145.05	3,385.00	3,451.61	241.37	133.40	40.87	-1,870.03	192.79	10,279.75	9,991.43	288.32	35.654	
16,900.00	7,145.36	3,385.00	3,451.61	243.89	133.40	40.87	-1,870.03	192.79	10,368.05	10,077.62	290.43	35.699	
17,000.00	7,145.67	3,385.00	3,451.61	246.41	133.40	40.87	-1,870.03	192.79	10,456.55	10,164.01	292.54	35.744	
17,100.00	7,145.98	3,385.00	3,451.61	248.93	133.40	40.87	-1,870.03	192.79	10,545.26	10,250.61	294.65	35.789	
17,200.00	7,146.29	3,385.00	3,451.61	251.44	133.40	40.87	-1,870.03	192.79	10,634.17	10,337.41	296.76	35.834	
17,300.00	7,146.60	3,385.00	3,451.61	253.96	133.40	40.87	-1,870.03	192.79	10,723.27	10,424.40	298.87	35.879	
17,400.00	7,146.91	3,385.00	3,451.61	256.48	133.40	40.87	-1,870.03	192.79	10,812.57	10,511.59	300.98	35.925	
17,430.36	7,147.00	3,385.00	3,451.61	257.24	133.40	40.87	-1,870.03	192.79	10,839.72	10,538.10	301.62	35.938	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498A- OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	2.28	0.00	0.00	12.56	700.23	156.01	717.40					
100.00	100.00	97.72	100.00	0.08	1.95	12.56	700.23	156.01	717.40	715.36	2.04	351.892		
200.00	200.00	197.72	200.00	0.31	5.91	12.56	700.23	156.01	717.40	711.18	6.22	115.377		
300.00	300.00	297.72	300.00	0.53	9.91	12.56	700.23	156.01	717.40	706.96	10.44	68.699		
400.00	400.00	397.72	400.00	0.76	13.91	12.56	700.23	156.01	717.40	702.73	14.67	48.911		
500.00	500.00	497.72	500.00	0.98	17.91	12.56	700.23	156.01	717.40	698.51	18.89	37.973		
600.00	600.00	597.72	600.00	1.21	21.91	12.56	700.23	156.01	717.40	694.28	23.12	31.034		
700.00	700.00	697.72	700.00	1.43	25.91	12.56	700.23	156.01	717.40	690.06	27.34	26.238		
800.00	800.00	797.72	800.00	1.66	29.91	12.56	700.23	156.01	717.40	685.83	31.57	22.727		
900.00	900.00	897.72	900.00	1.88	33.91	12.56	700.23	156.01	717.40	681.61	35.79	20.044		
1,000.00	1,000.00	997.72	1,000.00	2.11	37.91	12.56	700.23	156.01	717.40	677.38	40.02	17.928		
1,100.00	1,099.98	1,097.70	1,099.98	2.33	41.91	36.28	700.23	156.01	715.99	671.77	44.22	16.191		
1,200.00	1,199.84	1,197.56	1,199.84	2.56	45.90	36.58	700.23	156.01	711.78	663.39	48.39	14.710		
1,300.00	1,299.45	1,297.17	1,299.45	2.79	49.89	37.08	700.23	156.01	704.79	652.29	52.50	13.425		
1,400.00	1,398.70	1,396.42	1,398.70	3.03	53.86	37.81	700.23	156.01	695.09	638.54	56.55	12.291		
1,500.00	1,497.47	1,495.19	1,497.47	3.30	57.81	38.76	700.23	156.01	682.75	622.21	60.54	11.277		
1,600.00	1,595.62	1,593.34	1,595.62	3.61	61.73	39.97	700.23	156.01	667.89	603.41	64.48	10.358		
1,700.00	1,693.06	1,690.78	1,693.06	3.95	65.63	41.46	700.23	156.01	650.65	582.28	68.37	9.517		
1,800.00	1,789.64	1,787.36	1,789.64	4.35	69.49	43.26	700.23	156.01	631.23	559.00	72.23	8.739		
1,900.00	1,885.30	1,883.02	1,885.30	4.80	73.32	45.34	700.23	156.01	609.92	533.74	76.18	8.006		
2,000.00	1,980.64	1,978.36	1,980.64	5.29	77.13	47.37	700.23	156.01	588.60	508.14	80.46	7.316		
2,100.00	2,075.99	2,073.71	2,075.99	5.80	80.95	49.55	700.23	156.01	568.07	483.29	84.78	6.700		
2,200.00	2,171.34	2,169.06	2,171.34	6.33	84.76	51.88	700.23	156.01	548.44	459.27	89.17	6.151		
2,300.00	2,266.68	2,264.40	2,266.68	6.87	88.58	54.37	700.23	156.01	529.79	436.19	93.60	5.660		
2,400.00	2,362.03	2,359.75	2,362.03	7.41	92.39	57.02	700.23	156.01	512.24	414.16	98.09	5.222		
2,500.00	2,457.38	2,455.10	2,457.38	7.97	96.20	59.84	700.23	156.01	495.91	393.29	102.62	4.833		
2,600.00	2,552.72	2,550.44	2,552.72	8.53	100.02	62.84	700.23	156.01	480.91	373.72	107.19	4.487		
2,700.00	2,648.07	2,645.79	2,648.07	9.10	103.83	66.00	700.23	156.01	467.38	355.58	111.79	4.181		
2,800.00	2,743.42	2,741.14	2,743.42	9.67	107.65	69.32	700.23	156.01	455.44	339.02	116.42	3.912		
2,900.00	2,838.77	2,836.49	2,838.77	10.24	111.46	72.80	700.23	156.01	445.23	324.18	121.04	3.678		
3,000.00	2,934.11	2,931.83	2,934.11	10.82	115.27	76.42	700.23	156.01	436.86	311.20	125.66	3.476		
3,100.00	3,029.46	3,027.18	3,029.46	11.40	119.09	80.14	700.23	156.01	430.45	300.20	130.25	3.305		
3,200.00	3,124.81	3,122.53	3,124.81	11.98	122.90	83.96	700.23	156.01	426.08	291.29	134.79	3.161		
3,300.00	3,220.15	3,217.87	3,220.15	12.56	126.71	87.83	700.23	156.01	423.81	284.55	139.27	3.043		
3,355.95	3,273.50	3,271.22	3,273.50	12.89	128.85	90.00	700.23	156.01	423.47	281.74	141.73	2.988 CC		
3,400.00	3,315.50	3,313.22	3,315.50	13.14	130.53	91.71	700.23	156.01	423.68	280.02	143.66	2.949		
3,500.00	3,410.85	3,408.57	3,410.85	13.73	134.34	95.58	700.23	156.01	425.70	277.73	147.96	2.877		
3,600.00	3,506.19	3,503.91	3,506.19	14.32	138.16	99.41	700.23	156.01	429.82	277.65	152.17	2.825 ES, SF		
3,700.00	3,601.54	3,520.00	3,522.28	14.91	138.80	100.04	700.23	156.01	443.14	289.79	153.35	2.890		
3,800.00	3,696.89	3,520.00	3,522.28	15.50	138.80	100.04	700.23	156.01	477.22	323.29	153.93	3.100		
3,900.00	3,792.24	3,520.00	3,522.28	16.09	138.80	100.04	700.23	156.01	528.31	373.80	154.51	3.419		
4,000.00	3,887.58	3,520.00	3,522.28	16.68	138.80	100.04	700.23	156.01	592.01	436.92	155.10	3.817		
4,100.00	3,982.93	3,520.00	3,522.28	17.27	138.80	100.04	700.23	156.01	664.72	509.04	155.68	4.270		
4,200.00	4,078.28	3,520.00	3,522.28	17.86	138.80	100.04	700.23	156.01	743.79	587.52	156.26	4.760		
4,300.00	4,173.62	3,520.00	3,522.28	18.45	138.80	100.04	700.23	156.01	827.40	670.55	156.85	5.275		
4,400.00	4,268.97	3,520.00	3,522.28	19.05	138.80	100.04	700.23	156.01	914.31	756.87	157.43	5.808		
4,500.00	4,364.32	3,520.00	3,522.28	19.64	138.80	100.04	700.23	156.01	1,003.66	845.64	158.02	6.351		
4,600.00	4,459.67	3,520.00	3,522.28	20.23	138.80	100.04	700.23	156.01	1,094.85	936.24	158.61	6.903		
4,700.00	4,555.01	3,520.00	3,522.28	20.83	138.80	100.04	700.23	156.01	1,187.46	1,028.27	159.19	7.459		
4,800.00	4,650.36	3,520.00	3,522.28	21.42	138.80	100.04	700.23	156.01	1,281.19	1,121.41	159.78	8.018		
4,900.00	4,745.71	3,520.00	3,522.28	22.02	138.80	100.04	700.23	156.01	1,375.79	1,215.42	160.37	8.579		
5,000.00	4,841.05	3,520.00	3,522.28	22.61	138.80	100.04	700.23	156.01	1,471.11	1,310.16	160.96	9.140		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498A - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,936.40	3,520.00	3,522.28	23.21	138.80	100.04	700.23	156.01	1,567.02	1,405.47	161.54	9.700	
5,200.00	5,031.75	3,520.00	3,522.28	23.80	138.80	100.04	700.23	156.01	1,663.40	1,501.27	162.13	10.260	
5,300.00	5,127.09	3,520.00	3,522.28	24.40	138.80	100.04	700.23	156.01	1,760.19	1,597.47	162.72	10.817	
5,400.00	5,222.44	3,520.00	3,522.28	25.00	138.80	100.04	700.23	156.01	1,857.32	1,694.02	163.31	11.373	
5,500.00	5,317.79	3,520.00	3,522.28	25.59	138.80	100.04	700.23	156.01	1,954.74	1,790.85	163.90	11.927	
5,600.00	5,413.14	3,520.00	3,522.28	26.19	138.80	100.04	700.23	156.01	2,052.41	1,887.92	164.49	12.478	
5,700.00	5,508.48	3,520.00	3,522.28	26.78	138.80	100.18	700.23	156.01	2,150.29	1,985.23	165.06	13.027	
5,800.00	5,604.35	3,520.00	3,522.28	27.24	138.80	109.66	700.23	156.01	2,248.28	2,083.93	164.35	13.680	
5,900.00	5,701.15	3,520.00	3,522.28	27.65	138.80	118.49	700.23	156.01	2,346.21	2,182.92	163.30	14.368	
6,000.00	5,798.77	3,520.00	3,522.28	28.02	138.80	126.34	700.23	156.01	2,443.99	2,281.76	162.23	15.065	
6,100.00	5,897.08	3,520.00	3,522.28	28.35	138.80	133.11	700.23	156.01	2,541.50	2,380.20	161.30	15.756	
6,200.00	5,995.98	3,520.00	3,522.28	28.63	138.80	138.83	700.23	156.01	2,638.68	2,478.12	160.56	16.434	
6,300.00	6,095.33	3,520.00	3,522.28	28.87	138.80	143.63	700.23	156.01	2,735.44	2,575.47	159.97	17.099	
6,400.00	6,195.01	3,520.00	3,522.28	29.06	138.80	147.65	700.23	156.01	2,831.72	2,672.25	159.47	17.757	
6,500.00	6,294.91	3,520.00	3,522.28	29.20	138.80	151.03	700.23	156.01	2,927.45	2,768.46	158.99	18.412	
6,600.00	6,394.89	3,520.00	3,522.28	29.30	138.80	156.30	700.23	156.01	3,022.50	2,863.29	159.22	18.983	
6,700.00	6,494.28	3,520.00	3,522.28	29.34	138.80	161.03	700.23	156.01	3,117.47	2,955.44	159.30	19.553	
6,800.00	6,591.26	3,520.00	3,522.28	29.31	138.80	165.76	700.23	156.01	3,202.15	3,046.76	155.40	20.606	
6,900.00	6,683.95	3,520.00	3,522.28	29.23	138.80	170.49	700.23	156.01	3,283.50	3,135.58	147.92	22.198	
7,000.00	6,770.55	3,520.00	3,522.28	29.09	138.80	175.22	700.23	156.01	3,357.68	3,220.41	137.27	24.461	
7,100.00	6,849.36	3,520.00	3,522.28	28.92	138.80	179.95	700.23	156.01	3,423.77	3,299.93	123.84	27.646	
7,200.00	6,918.86	3,520.00	3,522.28	28.73	138.80	184.68	700.23	156.01	3,480.98	3,372.92	108.05	32.215	
7,300.00	6,977.70	3,520.00	3,522.28	28.54	138.80	189.41	700.23	156.01	3,528.64	3,438.24	90.40	39.033	
7,400.00	7,027.98	3,520.00	3,522.28	28.35	138.80	194.14	700.23	156.01	3,569.58	3,486.42	83.16	42.924	
7,500.00	7,070.01	3,520.00	3,522.28	28.19	138.80	198.87	700.23	156.01	3,604.45	3,540.28	64.17	56.168	
7,600.00	7,099.01	3,520.00	3,522.28	28.06	138.80	203.60	700.23	156.01	3,628.73	3,582.70	46.03	78.839	
7,700.00	7,114.42	3,520.00	3,522.28	27.97	138.80	208.33	700.23	156.01	3,642.16	3,609.80	32.36	112.544	
7,800.00	7,117.13	3,520.00	3,522.28	28.00	138.80	213.06	700.23	156.01	3,645.78	3,615.55	30.23	120.599	
7,900.00	7,117.44	3,520.00	3,522.28	28.26	138.80	217.79	700.23	156.01	3,649.77	3,618.65	31.12	117.283	
8,000.00	7,117.75	3,520.00	3,522.28	28.94	138.80	222.52	700.23	156.01	3,656.49	3,624.47	32.02	114.210	
8,100.00	7,118.06	3,520.00	3,522.28	30.16	138.80	227.25	700.23	156.01	3,665.93	3,633.01	32.92	111.369	
8,200.00	7,118.37	3,520.00	3,522.28	31.76	138.80	231.98	700.23	156.01	3,678.06	3,644.24	33.82	108.745	
8,300.00	7,118.68	3,520.00	3,522.28	33.58	138.80	236.71	700.23	156.01	3,692.86	3,658.13	34.73	106.326	
8,400.00	7,118.99	3,520.00	3,522.28	35.53	138.80	241.44	700.23	156.01	3,710.30	3,674.66	35.64	104.096	
8,500.00	7,119.30	3,520.00	3,522.28	37.56	138.80	246.17	700.23	156.01	3,730.34	3,693.78	36.56	102.044	
8,600.00	7,119.61	3,520.00	3,522.28	39.66	138.80	250.90	700.23	156.01	3,752.94	3,715.46	37.47	100.155	
8,700.00	7,119.92	3,520.00	3,522.28	41.80	138.80	255.63	700.23	156.01	3,778.05	3,739.66	38.39	98.418	
8,800.00	7,120.23	3,520.00	3,522.28	43.99	138.80	260.36	700.23	156.01	3,805.62	3,766.31	39.31	96.823	
8,900.00	7,120.54	3,520.00	3,522.28	46.22	138.80	265.09	700.23	156.01	3,835.60	3,795.38	40.22	95.357	
9,000.00	7,120.85	3,520.00	3,522.28	48.47	138.80	269.82	700.23	156.01	3,867.94	3,826.79	41.14	94.013	
9,100.00	7,121.16	3,520.00	3,522.28	50.75	138.80	274.55	700.23	156.01	3,902.57	3,860.51	42.06	92.780	
9,200.00	7,121.47	3,520.00	3,522.28	53.05	138.80	279.28	700.23	156.01	3,939.43	3,896.45	42.98	91.651	
9,300.00	7,121.78	3,520.00	3,522.28	55.37	138.80	284.01	700.23	156.01	3,978.47	3,934.57	43.90	90.618	
9,400.00	7,122.09	3,520.00	3,522.28	57.71	138.80	288.74	700.23	156.01	4,019.62	3,974.79	44.83	89.673	
9,500.00	7,122.40	3,520.00	3,522.28	60.06	138.80	293.47	700.23	156.01	4,062.81	4,017.07	45.75	88.810	
9,600.00	7,122.71	3,520.00	3,522.28	62.43	138.80	298.20	700.23	156.01	4,107.99	4,061.32	46.67	88.024	
9,700.00	7,123.02	3,520.00	3,522.28	64.80	138.80	302.93	700.23	156.01	4,155.08	4,107.48	47.59	87.307	
9,800.00	7,123.33	3,520.00	3,522.28	67.19	138.80	307.66	700.23	156.01	4,204.02	4,155.50	48.51	86.655	
9,900.00	7,123.65	3,520.00	3,522.28	69.59	138.80	312.39	700.23	156.01	4,254.75	4,205.31	49.44	86.063	
10,000.00	7,123.96	3,520.00	3,522.28	71.99	138.80	317.12	700.23	156.01	4,307.20	4,256.84	50.36	85.527	
10,100.00	7,124.27	3,520.00	3,522.28	74.40	138.80	321.85	700.23	156.01	4,361.31	4,310.03	51.28	85.043	
10,200.00	7,124.58	3,520.00	3,522.28	76.82	138.80	326.58	700.23	156.01	4,417.03	4,364.82	52.21	84.605	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498A - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	3,520.00	3,522.28	79.25	138.80	9.50	700.23	156.01	4,474.29	4,421.16	53.13	84.212		
10,400.00	7,125.20	3,520.00	3,522.28	81.68	138.80	9.50	700.23	156.01	4,533.03	4,478.98	54.06	83.860		
10,500.00	7,125.51	3,520.00	3,522.28	84.12	138.80	9.50	700.23	156.01	4,593.20	4,538.22	54.98	83.545		
10,600.00	7,125.82	3,520.00	3,522.28	86.56	138.80	9.50	700.23	156.01	4,654.74	4,598.83	55.90	83.264		
10,700.00	7,126.13	3,520.00	3,522.28	89.01	138.80	9.50	700.23	156.01	4,717.59	4,660.76	56.83	83.016		
10,800.00	7,126.44	3,520.00	3,522.28	91.46	138.80	9.50	700.23	156.01	4,781.71	4,723.96	57.75	82.798		
10,900.00	7,126.75	3,520.00	3,522.28	93.91	138.80	9.50	700.23	156.01	4,847.05	4,788.37	58.68	82.607		
11,000.00	7,127.06	3,520.00	3,522.28	96.37	138.80	9.50	700.23	156.01	4,913.55	4,853.95	59.60	82.441		
11,100.00	7,127.37	3,520.00	3,522.28	98.83	138.80	9.50	700.23	156.01	4,981.17	4,920.65	60.53	82.299		
11,200.00	7,127.68	3,520.00	3,522.28	101.30	138.80	9.50	700.23	156.01	5,049.87	4,988.42	61.45	82.178		
11,300.00	7,127.99	3,520.00	3,522.28	103.77	138.80	9.50	700.23	156.01	5,119.60	5,057.22	62.37	82.078		
11,400.00	7,128.30	3,520.00	3,522.28	106.24	138.80	9.50	700.23	156.01	5,190.32	5,127.02	63.30	81.996		
11,500.00	7,128.61	3,520.00	3,522.28	108.71	138.80	9.50	700.23	156.01	5,261.99	5,197.76	64.22	81.931		
11,600.00	7,128.92	3,520.00	3,522.28	111.19	138.80	9.50	700.23	156.01	5,334.57	5,269.42	65.15	81.882		
11,700.00	7,129.23	3,520.00	3,522.28	113.66	138.80	9.50	700.23	156.01	5,408.02	5,341.95	66.07	81.847		
11,800.00	7,129.54	3,520.00	3,522.28	116.14	138.80	9.50	700.23	156.01	5,482.32	5,415.32	67.00	81.826		
11,900.00	7,129.85	3,520.00	3,522.28	118.62	138.80	9.50	700.23	156.01	5,557.42	5,489.49	67.92	81.817		
12,000.00	7,130.16	3,520.00	3,522.28	121.11	138.80	9.50	700.23	156.01	5,633.29	5,564.44	68.85	81.820		
12,100.00	7,130.47	3,520.00	3,522.28	123.59	138.80	9.50	700.23	156.01	5,709.91	5,640.14	69.78	81.833		
12,200.00	7,130.78	3,520.00	3,522.28	126.08	138.80	9.50	700.23	156.01	5,787.24	5,716.54	70.70	81.856		
12,300.00	7,131.09	3,520.00	3,522.28	128.57	138.80	9.50	700.23	156.01	5,865.26	5,793.64	71.63	81.887		
12,400.00	7,131.40	3,520.00	3,522.28	131.06	138.80	9.50	700.23	156.01	5,943.94	5,871.39	72.55	81.927		
12,500.00	7,131.71	3,520.00	3,522.28	133.55	138.80	9.50	700.23	156.01	6,023.25	5,949.77	73.48	81.975		
12,600.00	7,132.02	3,520.00	3,522.28	136.04	138.80	9.50	700.23	156.01	6,103.16	6,028.76	74.40	82.030		
12,700.00	7,132.33	3,520.00	3,522.28	138.54	138.80	9.50	700.23	156.01	6,183.67	6,108.34	75.33	82.091		
12,800.00	7,132.64	3,520.00	3,522.28	141.03	138.80	9.50	700.23	156.01	6,264.73	6,188.48	76.25	82.157		
12,900.00	7,132.95	3,520.00	3,522.28	143.53	138.80	9.50	700.23	156.01	6,346.33	6,269.15	77.18	82.229		
13,000.00	7,133.26	3,520.00	3,522.28	146.02	138.80	9.50	700.23	156.01	6,428.45	6,350.35	78.10	82.306		
13,100.00	7,133.57	3,520.00	3,522.28	148.52	138.80	9.50	700.23	156.01	6,511.08	6,432.05	79.03	82.388		
13,200.00	7,133.88	3,520.00	3,522.28	151.02	138.80	9.50	700.23	156.01	6,594.18	6,514.23	79.95	82.474		
13,300.00	7,134.19	3,520.00	3,522.28	153.52	138.80	9.50	700.23	156.01	6,677.75	6,596.87	80.88	82.563		
13,400.00	7,134.50	3,520.00	3,522.28	156.02	138.80	9.50	700.23	156.01	6,761.76	6,679.96	81.81	82.656		
13,500.00	7,134.81	3,520.00	3,522.28	158.52	138.80	9.50	700.23	156.01	6,846.21	6,763.47	82.73	82.752		
13,600.00	7,135.12	3,520.00	3,522.28	161.03	138.80	9.50	700.23	156.01	6,931.06	6,847.41	83.66	82.851		
13,700.00	7,135.43	3,520.00	3,522.28	163.53	138.80	9.50	700.23	156.01	7,016.32	6,931.74	84.58	82.952		
13,800.00	7,135.74	3,520.00	3,522.28	166.03	138.80	9.50	700.23	156.01	7,101.96	7,016.45	85.51	83.055		
13,900.00	7,136.05	3,520.00	3,522.28	168.54	138.80	9.50	700.23	156.01	7,187.97	7,101.54	86.43	83.161		
14,000.00	7,136.36	3,520.00	3,522.28	171.04	138.80	9.50	700.23	156.01	7,274.34	7,186.98	87.36	83.268		
14,100.00	7,136.67	3,520.00	3,522.28	173.55	138.80	9.50	700.23	156.01	7,361.06	7,272.77	88.29	83.378		
14,200.00	7,136.98	3,520.00	3,522.28	176.05	138.80	9.50	700.23	156.01	7,448.10	7,358.89	89.21	83.488		
14,300.00	7,137.29	3,520.00	3,522.28	178.56	138.80	9.50	700.23	156.01	7,535.47	7,445.34	90.14	83.600		
14,400.00	7,137.60	3,520.00	3,522.28	181.07	138.80	9.50	700.23	156.01	7,623.15	7,532.09	91.06	83.713		
14,500.00	7,137.91	3,520.00	3,522.28	183.58	138.80	9.50	700.23	156.01	7,711.13	7,619.14	91.99	83.827		
14,600.00	7,138.22	3,520.00	3,522.28	186.09	138.80	9.50	700.23	156.01	7,799.40	7,706.49	92.91	83.942		
14,700.00	7,138.53	3,520.00	3,522.28	188.59	138.80	9.50	700.23	156.01	7,887.95	7,794.11	93.84	84.057		
14,800.00	7,138.84	3,520.00	3,522.28	191.10	138.80	9.50	700.23	156.01	7,976.77	7,882.00	94.77	84.173		
14,900.00	7,139.15	3,520.00	3,522.28	193.61	138.80	9.50	700.23	156.01	8,065.85	7,970.16	95.69	84.290		
15,000.00	7,139.46	3,520.00	3,522.28	196.13	138.80	9.50	700.23	156.01	8,155.19	8,058.57	96.62	84.406		
15,100.00	7,139.77	3,520.00	3,522.28	198.64	138.80	9.50	700.23	156.01	8,244.77	8,147.22	97.54	84.524		
15,200.00	7,140.08	3,520.00	3,522.28	201.15	138.80	9.50	700.23	156.01	8,334.58	8,236.11	98.47	84.641		
15,300.00	7,140.39	3,520.00	3,522.28	203.66	138.80	9.50	700.23	156.01	8,424.63	8,325.23	99.40	84.759		
15,400.00	7,140.70	3,520.00	3,522.28	206.17	138.80	9.50	700.23	156.01	8,514.90	8,414.58	100.32	84.876		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 498A - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)					
15,500.00	7,141.01	3,520.00	3,522.28	208.68	138.80	9.50	700.23	156.01	8,605.38	8,504.13	101.25	84.994	
15,600.00	7,141.32	3,520.00	3,522.28	211.20	138.80	9.50	700.23	156.01	8,696.07	8,593.90	102.17	85.111	
15,700.00	7,141.63	3,520.00	3,522.28	213.71	138.80	9.50	700.23	156.01	8,786.97	8,683.87	103.10	85.228	
15,800.00	7,141.94	3,520.00	3,522.28	216.22	138.80	9.50	700.23	156.01	8,878.06	8,774.03	104.03	85.345	
15,900.00	7,142.25	3,520.00	3,522.28	218.74	138.80	9.50	700.23	156.01	8,969.34	8,864.38	104.95	85.462	
16,000.00	7,142.56	3,520.00	3,522.28	221.25	138.80	9.50	700.23	156.01	9,060.80	8,954.92	105.88	85.579	
16,100.00	7,142.87	3,520.00	3,522.28	223.77	138.80	9.50	700.23	156.01	9,152.44	9,045.64	106.80	85.695	
16,200.00	7,143.18	3,520.00	3,522.28	226.28	138.80	9.50	700.23	156.01	9,244.26	9,136.53	107.73	85.810	
16,300.00	7,143.49	3,520.00	3,522.28	228.80	138.80	9.50	700.23	156.01	9,336.24	9,227.59	108.65	85.926	
16,400.00	7,143.80	3,520.00	3,522.28	231.31	138.80	9.50	700.23	156.01	9,428.39	9,318.81	109.58	86.041	
16,500.00	7,144.11	3,520.00	3,522.28	233.83	138.80	9.50	700.23	156.01	9,520.69	9,410.19	110.51	86.155	
16,600.00	7,144.42	3,520.00	3,522.28	236.34	138.80	9.50	700.23	156.01	9,613.15	9,501.72	111.43	86.269	
16,700.00	7,144.73	3,520.00	3,522.28	238.86	138.80	9.50	700.23	156.01	9,705.76	9,593.40	112.36	86.382	
16,800.00	7,145.05	3,520.00	3,522.28	241.37	138.80	9.50	700.23	156.01	9,798.52	9,685.23	113.28	86.495	
16,900.00	7,145.36	3,520.00	3,522.28	243.89	138.80	9.50	700.23	156.01	9,891.41	9,777.20	114.21	86.607	
17,000.00	7,145.67	3,520.00	3,522.28	246.41	138.80	9.50	700.23	156.01	9,984.44	9,869.31	115.14	86.718	
17,100.00	7,145.98	3,520.00	3,522.28	248.93	138.80	9.50	700.23	156.01	10,077.61	9,961.55	116.06	86.829	
17,200.00	7,146.29	3,520.00	3,522.28	251.44	138.80	9.50	700.23	156.01	10,170.91	10,053.92	116.99	86.939	
17,300.00	7,146.60	3,520.00	3,522.28	253.96	138.80	9.50	700.23	156.01	10,264.33	10,146.41	117.91	87.049	
17,400.00	7,146.91	3,520.00	3,522.28	256.48	138.80	9.50	700.23	156.01	10,357.87	10,239.03	118.84	87.158	
17,430.36	7,147.00	3,520.00	3,522.28	257.24	138.80	9.50	700.23	156.01	10,386.30	10,267.17	119.12	87.191	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.31	0.00	0.00	0.03	75.44	949.77	3,656.31	3,777.65				
100.00	100.00	101.31	100.00	0.08	2.05	75.44	949.77	3,656.31	3,777.65	3,775.52	2.14	1,767.995	
200.00	200.00	201.31	200.00	0.31	6.05	75.44	949.77	3,656.31	3,777.65	3,771.29	6.36	593.835	
300.00	300.00	301.31	300.00	0.53	10.05	75.44	949.77	3,656.31	3,777.65	3,767.07	10.59	356.846	
400.00	400.00	401.31	400.00	0.76	14.05	75.44	949.77	3,656.31	3,777.65	3,762.84	14.81	255.058	
500.00	500.00	501.31	500.00	0.98	18.05	75.44	949.77	3,656.31	3,777.65	3,758.62	19.04	198.450	
600.00	600.00	601.31	600.00	1.21	22.05	75.44	949.77	3,656.31	3,777.65	3,754.39	23.26	162.406	
700.00	700.00	701.31	700.00	1.43	26.05	75.44	949.77	3,656.31	3,777.65	3,750.17	27.49	137.443	
800.00	800.00	801.31	800.00	1.66	30.05	75.44	949.77	3,656.31	3,777.65	3,745.94	31.71	119.131	
900.00	900.00	901.31	900.00	1.88	34.05	75.44	949.77	3,656.31	3,777.65	3,741.72	35.93	105.125	
1,000.00	1,000.00	1,001.31	1,000.00	2.11	38.05	75.44	949.77	3,656.31	3,777.65	3,737.49	40.16	94.066	
1,100.00	1,099.98	1,101.29	1,099.98	2.33	42.05	99.08	949.77	3,656.31	3,777.93	3,733.55	44.38	85.125	
1,200.00	1,199.84	1,201.15	1,199.84	2.56	46.05	99.14	949.77	3,656.31	3,778.76	3,730.16	48.60	77.758	
1,300.00	1,299.45	1,300.76	1,299.45	2.79	50.03	99.24	949.77	3,656.31	3,780.16	3,727.35	52.81	71.584	
1,400.00	1,398.70	1,400.01	1,398.70	3.03	54.00	99.38	949.77	3,656.31	3,782.14	3,725.13	57.01	66.336	
1,500.00	1,497.47	1,498.78	1,497.47	3.30	57.95	99.56	949.77	3,656.31	3,784.75	3,723.52	61.22	61.819	
1,600.00	1,595.62	1,596.93	1,595.62	3.61	61.88	99.78	949.77	3,656.31	3,788.01	3,722.58	65.44	57.889	
1,700.00	1,693.06	1,694.37	1,693.06	3.95	65.77	100.03	949.77	3,656.31	3,791.98	3,722.32	69.66	54.439	
1,800.00	1,789.64	1,790.95	1,789.64	4.35	69.64	100.30	949.77	3,656.31	3,796.70	3,722.82	73.88	51.388	
1,900.00	1,885.30	1,886.61	1,885.30	4.80	73.46	100.64	949.77	3,656.31	3,802.23	3,724.11	78.12	48.670	
2,000.00	1,980.64	1,981.95	1,980.64	5.29	77.28	101.06	949.77	3,656.31	3,808.17	3,725.77	82.40	46.216	
2,100.00	2,075.99	2,077.30	2,075.99	5.80	81.09	101.49	949.77	3,656.31	3,814.34	3,727.65	86.69	43.998	
2,200.00	2,171.34	2,172.65	2,171.34	6.33	84.91	101.91	949.77	3,656.31	3,820.74	3,729.74	91.00	41.986	
2,300.00	2,266.68	2,267.99	2,266.68	6.87	88.72	102.33	949.77	3,656.31	3,827.36	3,732.04	95.32	40.154	
2,400.00	2,362.03	2,363.34	2,362.03	7.41	92.53	102.75	949.77	3,656.31	3,834.21	3,734.57	99.64	38.480	
2,500.00	2,457.38	2,458.69	2,457.38	7.97	96.35	103.17	949.77	3,656.31	3,841.29	3,737.32	103.97	36.946	
2,600.00	2,552.72	2,554.03	2,552.72	8.53	100.16	103.59	949.77	3,656.31	3,848.58	3,740.28	108.30	35.536	
2,700.00	2,648.07	2,649.38	2,648.07	9.10	103.98	104.01	949.77	3,656.31	3,856.10	3,743.47	112.63	34.236	
2,800.00	2,743.42	2,744.73	2,743.42	9.67	107.79	104.42	949.77	3,656.31	3,863.84	3,746.88	116.97	33.034	
2,900.00	2,838.77	2,840.08	2,838.77	10.24	111.60	104.83	949.77	3,656.31	3,871.80	3,750.50	121.30	31.920	
3,000.00	2,934.11	2,935.42	2,934.11	10.82	115.42	105.25	949.77	3,656.31	3,879.98	3,754.35	125.63	30.884	
3,100.00	3,029.46	3,030.77	3,029.46	11.40	119.23	105.66	949.77	3,656.31	3,888.38	3,758.41	129.96	29.919	
3,200.00	3,124.81	3,126.12	3,124.81	11.98	123.04	106.06	949.77	3,656.31	3,896.98	3,762.69	134.29	29.019	
3,300.00	3,220.15	3,221.46	3,220.15	12.56	126.86	106.47	949.77	3,656.31	3,905.81	3,767.19	138.62	28.176	
3,400.00	3,315.50	3,316.81	3,315.50	13.14	130.67	106.88	949.77	3,656.31	3,914.84	3,771.90	142.95	27.387	
3,500.00	3,410.85	3,412.16	3,410.85	13.73	134.49	107.28	949.77	3,656.31	3,924.09	3,776.82	147.27	26.646	
3,600.00	3,506.19	3,507.50	3,506.19	14.32	138.30	107.68	949.77	3,656.31	3,933.54	3,781.95	151.59	25.949	
3,700.00	3,601.54	3,602.85	3,601.54	14.91	142.11	108.08	949.77	3,656.31	3,943.21	3,787.30	155.91	25.292	
3,800.00	3,696.89	3,698.20	3,696.89	15.50	145.93	108.48	949.77	3,656.31	3,953.08	3,792.86	160.22	24.673	
3,900.00	3,792.24	3,793.55	3,792.24	16.09	149.74	108.88	949.77	3,656.31	3,963.15	3,798.62	164.53	24.087	
4,000.00	3,887.58	3,888.89	3,887.58	16.68	153.56	109.27	949.77	3,656.31	3,973.43	3,804.59	168.84	23.534	
4,100.00	3,982.93	3,984.24	3,982.93	17.27	157.37	109.66	949.77	3,656.31	3,983.91	3,810.76	173.14	23.009	
4,200.00	4,078.28	4,079.59	4,078.28	17.86	161.18	110.05	949.77	3,656.31	3,994.59	3,817.14	177.45	22.512	
4,300.00	4,173.62	4,174.93	4,173.62	18.45	165.00	110.44	949.77	3,656.31	4,005.47	3,823.72	181.74	22.039	
4,400.00	4,268.97	4,270.28	4,268.97	19.05	168.81	110.83	949.77	3,656.31	4,016.54	3,830.51	186.03	21.590	
4,500.00	4,364.32	4,365.63	4,364.32	19.64	172.63	111.21	949.77	3,656.31	4,027.81	3,837.49	190.32	21.163	
4,600.00	4,459.67	4,460.98	4,459.67	20.23	176.44	111.60	949.77	3,656.31	4,039.27	3,844.67	194.61	20.756	
4,700.00	4,555.01	4,556.32	4,555.01	20.83	180.25	111.98	949.77	3,656.31	4,050.93	3,852.04	198.89	20.368	
4,800.00	4,650.36	4,651.67	4,650.36	21.42	184.07	112.35	949.77	3,656.31	4,062.78	3,859.61	203.17	19.997	
4,900.00	4,745.71	4,747.02	4,745.71	22.02	187.88	112.73	949.77	3,656.31	4,074.81	3,867.37	207.44	19.643	
5,000.00	4,841.05	4,842.36	4,841.05	22.61	191.69	113.11	949.77	3,656.31	4,087.03	3,875.32	211.71	19.305	
5,100.00	4,936.40	4,937.71	4,936.40	23.21	195.51	113.48	949.77	3,656.31	4,099.44	3,883.46	215.97	18.981	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,031.75	5,033.06	5,031.75	23.80	199.32	113.85	949.77	3,656.31	4,112.03	3,891.79	220.23	18.671		
5,300.00	5,127.09	5,128.40	5,127.09	24.40	203.14	114.22	949.77	3,656.31	4,124.80	3,900.31	224.49	18.374		
5,400.00	5,222.44	5,223.75	5,222.44	25.00	206.95	114.58	949.77	3,656.31	4,137.75	3,909.01	228.74	18.089		
5,500.00	5,317.79	5,319.10	5,317.79	25.59	210.76	114.95	949.77	3,656.31	4,150.88	3,917.90	232.99	17.816		
5,600.00	5,413.14	5,414.45	5,413.14	26.19	214.58	115.31	949.77	3,656.31	4,164.19	3,926.96	237.23	17.553		
5,700.00	5,508.48	5,509.79	5,508.48	26.78	218.39	115.67	949.77	3,656.31	4,177.67	3,936.20	241.47	17.301		
5,800.00	5,604.35	5,605.66	5,604.35	27.24	222.23	116.24	949.77	3,656.31	4,190.55	3,944.58	245.96	17.037		
5,900.00	5,701.15	5,702.46	5,701.15	27.65	226.10	116.75	949.77	3,656.31	4,202.03	3,951.56	250.46	16.777		
6,000.00	5,798.77	5,800.08	5,798.77	28.02	230.00	117.19	949.77	3,656.31	4,212.04	3,957.10	254.95	16.521		
6,100.00	5,897.08	5,898.39	5,897.08	28.35	233.94	117.56	949.77	3,656.31	4,220.55	3,961.15	259.40	16.270		
6,200.00	5,995.98	5,997.29	5,995.98	28.63	237.89	117.86	949.77	3,656.31	4,227.50	3,963.68	263.81	16.025		
6,300.00	6,095.33	6,096.64	6,095.33	28.87	241.87	118.09	949.77	3,656.31	4,232.85	3,964.68	268.17	15.784		
6,400.00	6,195.01	6,196.32	6,195.01	29.06	245.85	118.24	949.77	3,656.31	4,236.58	3,964.13	272.45	15.550		
6,500.00	6,294.91	6,296.22	6,294.91	29.20	249.85	118.33	949.77	3,656.31	4,238.66	3,962.02	276.64	15.322		
6,600.00	6,394.89	6,396.20	6,394.89	29.30	253.85	4.88	949.77	3,656.31	4,238.73	3,958.18	280.56	15.108		
6,700.00	6,494.28	6,495.59	6,494.28	29.34	257.82	4.96	949.77	3,656.31	4,228.45	3,948.08	280.38	15.081		
6,800.00	6,591.26	6,592.57	6,591.26	29.31	261.70	5.17	949.77	3,656.31	4,204.49	3,930.00	274.49	15.317		
6,900.00	6,683.95	6,685.26	6,683.95	29.23	265.41	5.51	949.77	3,656.31	4,167.32	3,904.48	262.84	15.855		
7,000.00	6,770.55	6,771.86	6,770.55	29.09	268.87	6.04	949.77	3,656.31	4,117.66	3,872.11	245.55	16.769		
7,100.00	6,849.36	6,850.67	6,849.36	28.92	272.03	6.84	949.77	3,656.31	4,056.48	3,833.47	223.01	18.190		
7,200.00	6,918.86	6,920.17	6,918.86	28.73	274.81	8.03	949.77	3,656.31	3,984.98	3,788.98	196.00	20.331		
7,300.00	6,977.70	6,979.01	6,977.70	28.54	277.16	9.90	949.77	3,656.31	3,904.56	3,738.39	166.17	23.497		
7,400.00	7,027.98	7,029.29	7,027.98	28.35	279.17	11.11	949.77	3,656.31	3,818.51	3,663.26	155.25	24.596		
7,500.00	7,070.01	7,071.32	7,070.01	28.19	280.85	15.25	949.77	3,656.31	3,728.27	3,597.11	131.15	28.427		
7,600.00	7,099.01	7,100.32	7,099.01	28.06	282.01	24.11	949.77	3,656.31	3,633.11	3,495.76	137.35	26.452		
7,700.00	7,114.42	7,115.73	7,114.42	27.97	282.63	50.35	949.77	3,656.31	3,534.89	3,299.65	235.24	15.027		
7,800.00	7,117.13	7,118.44	7,117.13	28.00	282.74	88.32	949.77	3,656.31	3,435.50	3,125.47	310.03	11.081		
7,900.00	7,117.44	7,118.75	7,117.44	28.26	282.75	88.37	949.77	3,656.31	3,336.07	3,023.98	312.09	10.689		
8,000.00	7,117.75	7,119.06	7,117.75	28.94	282.76	88.41	949.77	3,656.31	3,236.67	2,922.36	314.31	10.298		
8,100.00	7,118.06	7,119.37	7,118.06	30.16	282.77	88.46	949.77	3,656.31	3,137.31	2,820.65	316.67	9.907		
8,200.00	7,118.37	7,119.68	7,118.37	31.76	282.79	88.51	949.77	3,656.31	3,038.00	2,718.87	319.13	9.520		
8,300.00	7,118.68	7,119.99	7,118.68	33.58	282.80	88.56	949.77	3,656.31	2,938.73	2,617.04	321.69	9.135		
8,400.00	7,118.99	7,120.30	7,118.99	35.53	282.81	88.61	949.77	3,656.31	2,839.51	2,515.19	324.32	8.755		
8,500.00	7,119.30	7,120.61	7,119.30	37.56	282.82	88.66	949.77	3,656.31	2,740.35	2,413.34	327.01	8.380		
8,600.00	7,119.61	7,120.92	7,119.61	39.66	282.84	88.71	949.77	3,656.31	2,641.25	2,311.50	329.75	8.010		
8,700.00	7,119.92	7,121.23	7,119.92	41.80	282.85	88.76	949.77	3,656.31	2,542.22	2,209.69	332.53	7.645		
8,800.00	7,120.23	7,121.54	7,120.23	43.99	282.86	88.81	949.77	3,656.31	2,443.27	2,107.92	335.36	7.286		
8,900.00	7,120.54	7,121.85	7,120.54	46.22	282.87	88.86	949.77	3,656.31	2,344.42	2,006.21	338.21	6.932		
9,000.00	7,120.85	7,122.16	7,120.85	48.47	282.89	88.91	949.77	3,656.31	2,245.66	1,904.57	341.09	6.584		
9,100.00	7,121.16	7,122.47	7,121.16	50.75	282.90	88.96	949.77	3,656.31	2,147.01	1,803.02	343.99	6.241		
9,200.00	7,121.47	7,122.78	7,121.47	53.05	282.91	89.01	949.77	3,656.31	2,048.50	1,701.59	346.91	5.905		
9,300.00	7,121.78	7,123.09	7,121.78	55.37	282.92	89.06	949.77	3,656.31	1,950.14	1,600.29	349.85	5.574		
9,400.00	7,122.09	7,123.40	7,122.09	57.71	282.94	89.10	949.77	3,656.31	1,851.96	1,499.15	352.81	5.249		
9,500.00	7,122.40	7,123.71	7,122.40	60.06	282.95	89.15	949.77	3,656.31	1,753.98	1,398.20	355.78	4.930		
9,600.00	7,122.71	7,124.02	7,122.71	62.43	282.96	89.20	949.77	3,656.31	1,656.24	1,297.48	358.76	4.617		
9,700.00	7,123.02	7,124.33	7,123.02	64.80	282.97	89.25	949.77	3,656.31	1,558.79	1,197.04	361.74	4.309		
9,800.00	7,123.33	7,124.64	7,123.33	67.19	282.99	89.30	949.77	3,656.31	1,461.68	1,096.94	364.74	4.007		
9,900.00	7,123.65	7,124.96	7,123.65	69.59	283.00	89.35	949.77	3,656.31	1,364.99	997.24	367.75	3.712		
10,000.00	7,123.96	7,125.27	7,123.96	71.99	283.01	89.40	949.77	3,656.31	1,268.82	898.05	370.76	3.422		
10,100.00	7,124.27	7,125.58	7,124.27	74.40	283.02	89.45	949.77	3,656.31	1,173.28	799.49	373.79	3.139		
10,200.00	7,124.58	7,125.89	7,124.58	76.82	283.04	89.50	949.77	3,656.31	1,078.55	701.74	376.81	2.862		
10,300.00	7,124.89	7,126.20	7,124.89	79.25	283.05	89.55	949.77	3,656.31	984.87	605.02	379.84	2.593		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
10,400.00	7,125.20	7,126.51	7,125.20	81.68	283.06	89.60	949.77	3,656.31	892.56	509.68	382.88	2.331		
10,500.00	7,125.51	7,126.82	7,125.51	84.12	283.07	89.65	949.77	3,656.31	802.09	416.17	385.92	2.078		
10,600.00	7,125.82	7,127.13	7,125.82	86.56	283.09	89.70	949.77	3,656.31	714.17	325.20	388.97	1.836		
10,700.00	7,126.13	7,127.44	7,126.13	89.01	283.10	89.75	949.77	3,656.31	629.86	237.85	392.02	1.607		
10,800.00	7,126.44	7,127.75	7,126.44	91.46	283.11	89.79	949.77	3,656.31	550.83	155.76	395.07	1.394	Monitor	
10,900.00	7,126.75	7,128.06	7,126.75	93.91	283.12	89.84	949.77	3,656.31	479.69	81.57	398.12	1.205	Shut In Offsets	
11,000.00	7,127.06	7,128.37	7,127.06	96.37	283.13	89.89	949.77	3,656.31	420.47	19.29	401.18	1.048	Shut In Offsets	
11,100.00	7,127.37	7,128.68	7,127.37	98.83	283.15	89.94	949.77	3,656.31	378.79	-25.45	404.24	0.937	Stop Drilling	
11,200.00	7,127.68	7,128.99	7,127.68	101.30	283.16	89.99	949.77	3,656.31	360.79	-46.51	407.30	0.886	Stop Drilling	
11,216.56	7,127.73	7,129.04	7,127.73	101.71	283.16	90.00	949.77	3,656.31	360.41	-47.87	408.29	0.883	Stop Drilling, CC, ES, SF	
11,300.00	7,127.99	7,129.30	7,127.99	103.77	283.17	90.04	949.77	3,656.31	369.95	-40.42	410.37	0.902	Stop Drilling	
11,400.00	7,128.30	7,129.61	7,128.30	106.24	283.18	90.09	949.77	3,656.31	404.41	-9.02	413.44	0.978	Stop Drilling	
11,500.00	7,128.61	7,129.92	7,128.61	108.71	283.20	90.14	949.77	3,656.31	458.52	42.01	416.50	1.101	Shut In Offsets	
11,600.00	7,128.92	7,130.23	7,128.92	111.19	283.21	90.19	949.77	3,656.31	526.24	106.66	419.57	1.254	Monitor	
11,700.00	7,129.23	7,130.54	7,129.23	113.66	283.22	90.24	949.77	3,656.31	603.00	180.36	422.64	1.427	Monitor	
11,800.00	7,129.54	7,130.85	7,129.54	116.14	283.23	90.29	949.77	3,656.31	685.79	260.07	425.72	1.611		
11,900.00	7,129.85	7,131.16	7,129.85	118.62	283.25	90.34	949.77	3,656.31	772.65	343.86	428.79	1.802		
12,000.00	7,130.16	7,131.47	7,130.16	121.11	283.26	90.39	949.77	3,656.31	862.37	430.50	431.87	1.997		
12,100.00	7,130.47	7,131.78	7,130.47	123.59	283.27	90.44	949.77	3,656.31	954.13	519.19	434.94	2.194		
12,200.00	7,130.78	7,132.09	7,130.78	126.08	283.28	90.48	949.77	3,656.31	1,047.40	609.38	438.02	2.391		
12,300.00	7,131.09	7,132.40	7,131.09	128.57	283.30	90.53	949.77	3,656.31	1,141.81	700.71	441.10	2.589		
12,400.00	7,131.40	7,132.71	7,131.40	131.06	283.31	90.58	949.77	3,656.31	1,237.10	792.93	444.18	2.785		
12,500.00	7,131.71	7,133.02	7,131.71	133.55	283.32	90.63	949.77	3,656.31	1,333.08	885.83	447.26	2.981		
12,600.00	7,132.02	7,133.33	7,132.02	136.04	283.33	90.68	949.77	3,656.31	1,429.61	979.28	450.34	3.175		
12,700.00	7,132.33	7,133.64	7,132.33	138.54	283.35	90.73	949.77	3,656.31	1,526.59	1,073.17	453.42	3.367		
12,800.00	7,132.64	7,133.95	7,132.64	141.03	283.36	90.78	949.77	3,656.31	1,623.94	1,167.44	456.50	3.557		
12,900.00	7,132.95	7,134.26	7,132.95	143.53	283.37	90.83	949.77	3,656.31	1,721.58	1,262.00	459.58	3.746		
13,000.00	7,133.26	7,134.57	7,133.26	146.02	283.38	90.88	949.77	3,656.31	1,819.49	1,356.82	462.66	3.933		
13,100.00	7,133.57	7,134.88	7,133.57	148.52	283.40	90.93	949.77	3,656.31	1,917.61	1,451.86	465.75	4.117		
13,200.00	7,133.88	7,135.19	7,133.88	151.02	283.41	90.98	949.77	3,656.31	2,015.91	1,547.08	468.83	4.300		
13,300.00	7,134.19	7,135.50	7,134.19	153.52	283.42	91.03	949.77	3,656.31	2,114.38	1,642.46	471.91	4.480		
13,400.00	7,134.50	7,135.81	7,134.50	156.02	283.43	91.08	949.77	3,656.31	2,212.98	1,737.98	475.00	4.659		
13,500.00	7,134.81	7,136.12	7,134.81	158.52	283.44	91.13	949.77	3,656.31	2,311.70	1,833.62	478.08	4.835		
13,600.00	7,135.12	7,136.43	7,135.12	161.03	283.46	91.17	949.77	3,656.31	2,410.53	1,929.36	481.16	5.010		
13,700.00	7,135.43	7,136.74	7,135.43	163.53	283.47	91.22	949.77	3,656.31	2,509.45	2,025.20	484.25	5.182		
13,800.00	7,135.74	7,137.05	7,135.74	166.03	283.48	91.27	949.77	3,656.31	2,608.45	2,121.12	487.33	5.353		
13,900.00	7,136.05	7,137.36	7,136.05	168.54	283.49	91.32	949.77	3,656.31	2,707.53	2,217.11	490.42	5.521		
14,000.00	7,136.36	7,137.67	7,136.36	171.04	283.51	91.37	949.77	3,656.31	2,806.67	2,313.17	493.50	5.687		
14,100.00	7,136.67	7,137.98	7,136.67	173.55	283.52	91.42	949.77	3,656.31	2,905.87	2,409.28	496.59	5.852		
14,200.00	7,136.98	7,138.29	7,136.98	176.05	283.53	91.47	949.77	3,656.31	3,005.12	2,505.45	499.67	6.014		
14,300.00	7,137.29	7,138.60	7,137.29	178.56	283.54	91.52	949.77	3,656.31	3,104.42	2,601.67	502.75	6.175		
14,400.00	7,137.60	7,138.91	7,137.60	181.07	283.56	91.57	949.77	3,656.31	3,203.77	2,697.93	505.84	6.334		
14,500.00	7,137.91	7,139.22	7,137.91	183.58	283.57	91.62	949.77	3,656.31	3,303.15	2,794.23	508.92	6.490		
14,600.00	7,138.22	7,139.53	7,138.22	186.09	283.58	91.67	949.77	3,656.31	3,402.57	2,890.56	512.01	6.646		
14,700.00	7,138.53	7,139.84	7,138.53	188.59	283.59	91.72	949.77	3,656.31	3,502.02	2,986.93	515.09	6.799		
14,800.00	7,138.84	7,140.15	7,138.84	191.10	283.61	91.77	949.77	3,656.31	3,601.51	3,083.33	518.18	6.950		
14,900.00	7,139.15	7,140.46	7,139.15	193.61	283.62	91.82	949.77	3,656.31	3,701.02	3,179.76	521.26	7.100		
15,000.00	7,139.46	7,140.77	7,139.46	196.13	283.63	91.86	949.77	3,656.31	3,800.55	3,276.21	524.34	7.248		
15,100.00	7,139.77	7,141.08	7,139.77	198.64	283.64	91.91	949.77	3,656.31	3,900.11	3,372.69	527.43	7.395		
15,200.00	7,140.08	7,141.39	7,140.08	201.15	283.66	91.96	949.77	3,656.31	3,999.70	3,469.19	530.51	7.539		
15,300.00	7,140.39	7,141.70	7,140.39	203.66	283.67	92.01	949.77	3,656.31	4,099.30	3,565.71	533.59	7.682		
15,400.00	7,140.70	7,142.01	7,140.70	206.17	283.68	92.06	949.77	3,656.31	4,198.92	3,662.25	536.67	7.824		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
15,500.00	7,141.01	7,142.32	7,141.01	208.68	283.69	92.11	949.77	3,656.31	4,298.56	3,758.80	539.76	7.964		
15,600.00	7,141.32	7,142.63	7,141.32	211.20	283.71	92.16	949.77	3,656.31	4,398.21	3,855.37	542.84	8.102		
15,700.00	7,141.63	7,142.94	7,141.63	213.71	283.72	92.21	949.77	3,656.31	4,497.88	3,951.96	545.92	8.239		
15,800.00	7,141.94	7,143.25	7,141.94	216.22	283.73	92.26	949.77	3,656.31	4,597.57	4,048.57	549.00	8.374		
15,900.00	7,142.25	7,143.56	7,142.25	218.74	283.74	92.31	949.77	3,656.31	4,697.27	4,145.18	552.08	8.508		
16,000.00	7,142.56	7,143.87	7,142.56	221.25	283.75	92.36	949.77	3,656.31	4,796.98	4,241.81	555.16	8.641		
16,100.00	7,142.87	7,144.18	7,142.87	223.77	283.77	92.41	949.77	3,656.31	4,896.70	4,338.46	558.24	8.772		
16,200.00	7,143.18	7,144.49	7,143.18	226.28	283.78	92.46	949.77	3,656.31	4,996.44	4,435.11	561.32	8.901		
16,300.00	7,143.49	7,144.80	7,143.49	228.80	283.79	92.50	949.77	3,656.31	5,096.18	4,531.77	564.40	9.029		
16,400.00	7,143.80	7,145.11	7,143.80	231.31	283.80	92.55	949.77	3,656.31	5,195.93	4,628.45	567.48	9.156		
16,500.00	7,144.11	7,145.42	7,144.11	233.83	283.82	92.60	949.77	3,656.31	5,295.70	4,725.13	570.56	9.282		
16,600.00	7,144.42	7,145.73	7,144.42	236.34	283.83	92.65	949.77	3,656.31	5,395.47	4,821.83	573.64	9.406		
16,700.00	7,144.73	7,146.04	7,144.73	238.86	283.84	92.70	949.77	3,656.31	5,495.25	4,918.53	576.72	9.528		
16,800.00	7,145.05	7,146.36	7,145.05	241.37	283.85	92.75	949.77	3,656.31	5,595.04	5,015.24	579.80	9.650		
16,900.00	7,145.36	7,146.67	7,145.36	243.89	283.87	92.80	949.77	3,656.31	5,694.83	5,111.96	582.87	9.770		
17,000.00	7,145.67	7,146.98	7,145.67	246.41	283.88	92.85	949.77	3,656.31	5,794.63	5,208.68	585.95	9.889		
17,100.00	7,145.98	7,147.29	7,145.98	248.93	283.89	92.90	949.77	3,656.31	5,894.44	5,305.42	589.03	10.007		
17,200.00	7,146.29	7,147.60	7,146.29	251.44	283.90	92.95	949.77	3,656.31	5,994.26	5,402.16	592.10	10.124		
17,300.00	7,146.60	7,147.91	7,146.60	253.96	283.92	93.00	949.77	3,656.31	6,094.08	5,498.90	595.18	10.239		
17,400.00	7,146.91	7,148.22	7,146.91	256.48	283.93	93.05	949.77	3,656.31	6,193.91	5,595.66	598.25	10.353		
17,430.36	7,147.00	7,148.31	7,147.00	257.24	283.93	93.06	949.77	3,656.31	6,224.22	5,625.03	599.18	10.388		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58M - OH - OH														Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)							
0.00	0.00	0.00	42.16	0.00	0.00	127.67	-2,281.82	2,955.50	3,734.09						
100.00	100.00	57.84	100.00	0.08	1.16	127.67	-2,281.82	2,955.50	3,733.86	3,732.62	1.24	3,008.332			
200.00	200.00	157.84	200.00	0.31	4.31	127.67	-2,281.82	2,955.50	3,733.86	3,729.23	4.62	807.730			
300.00	300.00	257.84	300.00	0.53	8.31	127.67	-2,281.82	2,955.50	3,733.86	3,725.01	8.85	422.028			
400.00	400.00	357.84	400.00	0.76	12.31	127.67	-2,281.82	2,955.50	3,733.86	3,720.78	13.07	285.634			
500.00	500.00	457.84	500.00	0.98	16.31	127.67	-2,281.82	2,955.50	3,733.86	3,716.56	17.30	215.868			
600.00	600.00	557.84	600.00	1.21	20.31	127.67	-2,281.82	2,955.50	3,733.86	3,712.33	21.52	173.492			
700.00	700.00	657.84	700.00	1.43	24.31	127.67	-2,281.82	2,955.50	3,733.86	3,708.11	25.75	145.024			
800.00	800.00	757.84	800.00	1.66	28.31	127.67	-2,281.82	2,955.50	3,733.86	3,703.89	29.97	124.581			
900.00	900.00	857.84	900.00	1.88	32.31	127.67	-2,281.82	2,955.50	3,733.86	3,699.66	34.20	109.190			
1,000.00	1,000.00	957.84	1,000.00	2.11	36.31	127.67	-2,281.82	2,955.50	3,733.86	3,695.44	38.42	97.183			
1,100.00	1,099.98	1,057.82	1,099.98	2.33	40.31	151.29	-2,281.82	2,955.50	3,735.39	3,692.76	42.62	87.634			
1,200.00	1,199.84	1,157.68	1,199.84	2.56	44.31	151.28	-2,281.82	2,955.50	3,739.98	3,693.20	46.78	79.952			
1,300.00	1,299.45	1,257.29	1,299.45	2.79	48.29	151.27	-2,281.82	2,955.50	3,747.63	3,696.76	50.87	73.676			
1,400.00	1,398.70	1,356.54	1,398.70	3.03	52.26	151.26	-2,281.82	2,955.50	3,758.33	3,703.46	54.88	68.487			
1,500.00	1,497.47	1,455.31	1,497.47	3.30	56.21	151.24	-2,281.82	2,955.50	3,772.09	3,713.29	58.80	64.155			
1,600.00	1,595.62	1,553.46	1,595.62	3.61	60.14	151.21	-2,281.82	2,955.50	3,788.88	3,726.27	62.61	60.512			
1,700.00	1,693.06	1,650.90	1,693.06	3.95	64.04	151.18	-2,281.82	2,955.50	3,808.71	3,742.39	66.32	57.431			
1,800.00	1,789.64	1,747.48	1,789.64	4.35	67.90	151.14	-2,281.82	2,955.50	3,831.56	3,761.66	69.90	54.816			
1,900.00	1,885.30	1,843.14	1,885.30	4.80	71.73	151.15	-2,281.82	2,955.50	3,857.34	3,783.86	73.48	52.496			
2,000.00	1,980.64	1,938.48	1,980.64	5.29	75.54	151.36	-2,281.82	2,955.50	3,884.06	3,806.60	77.46	50.142			
2,100.00	2,075.99	2,033.83	2,075.99	5.80	79.35	151.57	-2,281.82	2,955.50	3,910.82	3,829.37	81.45	48.015			
2,200.00	2,171.34	2,129.18	2,171.34	6.33	83.17	151.78	-2,281.82	2,955.50	3,937.64	3,852.19	85.45	46.083			
2,300.00	2,266.68	2,224.52	2,266.68	6.87	86.98	151.98	-2,281.82	2,955.50	3,964.50	3,875.05	89.45	44.322			
2,400.00	2,362.03	2,319.87	2,362.03	7.41	90.79	152.18	-2,281.82	2,955.50	3,991.41	3,897.96	93.45	42.710			
2,500.00	2,457.38	2,415.22	2,457.38	7.97	94.61	152.38	-2,281.82	2,955.50	4,018.37	3,920.90	97.46	41.230			
2,600.00	2,552.72	2,510.56	2,552.72	8.53	98.42	152.58	-2,281.82	2,955.50	4,045.37	3,943.90	101.47	39.867			
2,700.00	2,648.07	2,605.91	2,648.07	9.10	102.24	152.77	-2,281.82	2,955.50	4,072.41	3,966.93	105.48	38.608			
2,800.00	2,743.42	2,701.26	2,743.42	9.67	106.05	152.96	-2,281.82	2,955.50	4,099.50	3,990.01	109.49	37.441			
2,900.00	2,838.77	2,796.61	2,838.77	10.24	109.86	153.15	-2,281.82	2,955.50	4,126.63	4,013.12	113.50	36.356			
3,000.00	2,934.11	2,891.95	2,934.11	10.82	113.68	153.34	-2,281.82	2,955.50	4,153.80	4,036.28	117.52	35.346			
3,100.00	3,029.46	2,987.30	3,029.46	11.40	117.49	153.52	-2,281.82	2,955.50	4,181.01	4,059.49	121.53	34.404			
3,200.00	3,124.81	3,082.65	3,124.81	11.98	121.31	153.70	-2,281.82	2,955.50	4,208.27	4,082.73	125.54	33.521			
3,300.00	3,220.15	3,177.99	3,220.15	12.56	125.12	153.88	-2,281.82	2,955.50	4,235.56	4,106.01	129.55	32.694			
3,400.00	3,315.50	3,273.34	3,315.50	13.14	128.93	154.06	-2,281.82	2,955.50	4,262.89	4,129.33	133.56	31.917			
3,500.00	3,410.85	3,368.69	3,410.85	13.73	132.75	154.23	-2,281.82	2,955.50	4,290.26	4,152.69	137.57	31.186			
3,600.00	3,506.19	3,464.03	3,506.19	14.32	136.56	154.40	-2,281.82	2,955.50	4,317.66	4,176.09	141.58	30.497			
3,700.00	3,601.54	3,559.38	3,601.54	14.91	140.38	154.57	-2,281.82	2,955.50	4,345.11	4,199.52	145.58	29.846			
3,800.00	3,696.89	3,654.73	3,696.89	15.50	144.19	154.74	-2,281.82	2,955.50	4,372.58	4,222.99	149.59	29.230			
3,900.00	3,792.24	3,750.08	3,792.24	16.09	148.00	154.91	-2,281.82	2,955.50	4,400.10	4,246.50	153.60	28.647			
4,000.00	3,887.58	3,845.42	3,887.58	16.68	151.82	155.07	-2,281.82	2,955.50	4,427.64	4,270.04	157.60	28.094			
4,100.00	3,982.93	3,940.77	3,982.93	17.27	155.63	155.24	-2,281.82	2,955.50	4,455.22	4,293.62	161.60	27.569			
4,200.00	4,078.28	4,036.12	4,078.28	17.86	159.44	155.40	-2,281.82	2,955.50	4,482.84	4,317.23	165.60	27.070			
4,300.00	4,173.62	4,131.46	4,173.62	18.45	163.26	155.55	-2,281.82	2,955.50	4,510.48	4,340.88	169.60	26.594			
4,400.00	4,268.97	4,226.81	4,268.97	19.05	167.07	155.71	-2,281.82	2,955.50	4,538.16	4,364.56	173.60	26.141			
4,500.00	4,364.32	4,322.16	4,364.32	19.64	170.89	155.86	-2,281.82	2,955.50	4,565.87	4,388.27	177.60	25.708			
4,600.00	4,459.67	4,417.51	4,459.67	20.23	174.70	156.02	-2,281.82	2,955.50	4,593.61	4,412.01	181.60	25.295			
4,700.00	4,555.01	4,512.85	4,555.01	20.83	178.51	156.17	-2,281.82	2,955.50	4,621.38	4,435.78	185.59	24.900			
4,800.00	4,650.36	4,608.20	4,650.36	21.42	182.33	156.32	-2,281.82	2,955.50	4,649.18	4,459.59	189.59	24.522			
4,900.00	4,745.71	4,703.55	4,745.71	22.02	186.14	156.46	-2,281.82	2,955.50	4,677.01	4,483.42	193.58	24.160			
5,000.00	4,841.05	4,798.89	4,841.05	22.61	189.96	156.61	-2,281.82	2,955.50	4,704.87	4,507.29	197.58	23.813			
5,100.00	4,936.40	4,894.24	4,936.40	23.21	193.77	156.75	-2,281.82	2,955.50	4,732.75	4,531.18	201.57	23.480			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58M - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 100-UNKNOWN												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,031.75	4,989.59	5,031.75	23.80	197.58	156.90	-2,281.82	2,955.50	4,760.66	4,555.11	205.56	23.160	
5,300.00	5,127.09	5,084.93	5,127.09	24.40	201.40	157.04	-2,281.82	2,955.50	4,788.60	4,579.06	209.55	22.852	
5,400.00	5,222.44	5,180.28	5,222.44	25.00	205.21	157.18	-2,281.82	2,955.50	4,816.57	4,603.04	213.53	22.556	
5,500.00	5,317.79	5,275.63	5,317.79	25.59	209.03	157.31	-2,281.82	2,955.50	4,844.56	4,627.04	217.52	22.272	
5,600.00	5,413.14	5,370.98	5,413.14	26.19	212.84	157.45	-2,281.82	2,955.50	4,872.58	4,651.07	221.51	21.997	
5,700.00	5,508.48	5,466.32	5,508.48	26.78	216.65	157.59	-2,281.82	2,955.50	4,900.63	4,675.11	225.52	21.730	
5,800.00	5,604.35	5,562.19	5,604.35	27.24	220.49	157.92	-2,281.82	2,955.50	4,927.09	4,695.81	231.29	21.303	
5,900.00	5,701.15	5,658.99	5,701.15	27.65	224.36	158.21	-2,281.82	2,955.50	4,950.45	4,713.53	236.92	20.895	
6,000.00	5,798.77	5,756.61	5,798.77	28.02	228.26	158.45	-2,281.82	2,955.50	4,970.66	4,728.25	242.40	20.506	
6,100.00	5,897.08	5,854.92	5,897.08	28.35	232.20	158.65	-2,281.82	2,955.50	4,987.69	4,739.98	247.71	20.135	
6,200.00	5,995.98	5,953.82	5,995.98	28.63	236.15	158.82	-2,281.82	2,955.50	5,001.51	4,748.69	252.82	19.783	
6,300.00	6,095.33	6,053.17	6,095.33	28.87	240.13	158.94	-2,281.82	2,955.50	5,012.11	4,754.41	257.70	19.450	
6,400.00	6,195.01	6,152.85	6,195.01	29.06	244.11	159.03	-2,281.82	2,955.50	5,019.46	4,757.13	262.34	19.134	
6,500.00	6,294.91	6,252.75	6,294.91	29.20	248.11	159.07	-2,281.82	2,955.50	5,023.57	4,756.85	266.71	18.835	
6,600.00	6,394.89	6,352.73	6,394.89	29.30	252.11	159.07	-2,281.82	2,955.50	5,024.22	4,753.54	270.68	18.561	
6,700.00	6,494.28	6,452.12	6,494.28	29.34	256.08	159.03	-2,281.82	2,955.50	5,017.01	4,744.57	272.44	18.415	
6,800.00	6,591.26	6,549.10	6,591.26	29.31	259.96	158.94	-2,281.82	2,955.50	5,000.24	4,728.56	271.68	18.405	
6,900.00	6,683.95	6,641.79	6,683.95	29.23	263.67	158.82	-2,281.82	2,955.50	4,974.34	4,705.15	269.19	18.479	
7,000.00	6,770.55	6,728.39	6,770.55	29.09	267.14	158.65	-2,281.82	2,955.50	4,939.97	4,673.61	266.36	18.546	
7,100.00	6,849.36	6,807.20	6,849.36	28.92	270.29	158.45	-2,281.82	2,955.50	4,897.99	4,632.72	265.27	18.464	
7,200.00	6,918.86	6,876.70	6,918.86	28.73	273.07	158.21	-2,281.82	2,955.50	4,849.44	4,582.03	267.41	18.135	
7,300.00	6,977.70	6,935.54	6,977.70	28.54	275.42	157.92	-2,281.82	2,955.50	4,795.53	4,521.95	273.58	17.529	
7,400.00	7,027.98	6,985.82	7,027.98	28.35	277.43	157.59	-2,281.82	2,955.50	4,738.67	4,459.37	279.29	16.967	
7,500.00	7,070.01	7,027.85	7,070.01	28.19	279.11	157.24	-2,281.82	2,955.50	4,680.01	4,390.78	289.23	16.181	
7,600.00	7,099.01	7,056.85	7,099.01	28.06	280.27	156.90	-2,281.82	2,955.50	4,619.25	4,320.45	298.81	15.459	
7,700.00	7,114.42	7,072.26	7,114.42	27.97	280.89	156.57	-2,281.82	2,955.50	4,557.78	4,252.18	305.60	14.914	
7,800.00	7,117.13	7,074.97	7,117.13	28.00	281.00	156.31	-2,281.82	2,955.50	4,496.91	4,188.36	308.55	14.574	
7,900.00	7,117.44	7,075.28	7,117.44	28.26	281.01	156.11	-2,281.82	2,955.50	4,437.42	4,126.81	310.61	14.286	
8,000.00	7,117.75	7,075.59	7,117.75	28.94	281.02	155.98	-2,281.82	2,955.50	4,379.40	4,066.58	312.82	14.000	
8,100.00	7,118.06	7,075.90	7,118.06	30.16	281.04	155.88	-2,281.82	2,955.50	4,322.91	4,007.75	315.16	13.717	
8,200.00	7,118.37	7,076.21	7,118.37	31.76	281.05	155.89	-2,281.82	2,955.50	4,268.02	3,950.41	317.61	13.438	
8,300.00	7,118.68	7,076.52	7,118.68	33.58	281.06	155.89	-2,281.82	2,955.50	4,214.79	3,894.63	320.16	13.165	
8,400.00	7,118.99	7,076.83	7,118.99	35.53	281.07	155.90	-2,281.82	2,955.50	4,163.28	3,840.51	322.77	12.898	
8,500.00	7,119.30	7,077.14	7,119.30	37.56	281.09	155.90	-2,281.82	2,955.50	4,113.56	3,788.10	325.45	12.639	
8,600.00	7,119.61	7,077.45	7,119.61	39.66	281.10	155.91	-2,281.82	2,955.50	4,065.68	3,737.50	328.19	12.388	
8,700.00	7,119.92	7,077.76	7,119.92	41.80	281.11	155.91	-2,281.82	2,955.50	4,019.73	3,688.77	330.96	12.146	
8,800.00	7,120.23	7,078.07	7,120.23	43.99	281.12	155.92	-2,281.82	2,955.50	3,975.76	3,641.99	333.77	11.912	
8,900.00	7,120.54	7,078.38	7,120.54	46.22	281.14	155.92	-2,281.82	2,955.50	3,933.84	3,597.22	336.62	11.686	
9,000.00	7,120.85	7,078.69	7,120.85	48.47	281.15	155.93	-2,281.82	2,955.50	3,894.04	3,554.55	339.49	11.470	
9,100.00	7,121.16	7,079.00	7,121.16	50.75	281.16	155.93	-2,281.82	2,955.50	3,856.42	3,514.04	342.38	11.264	
9,200.00	7,121.47	7,079.31	7,121.47	53.05	281.17	155.94	-2,281.82	2,955.50	3,821.05	3,475.76	345.29	11.066	
9,300.00	7,121.78	7,079.62	7,121.78	55.37	281.18	155.94	-2,281.82	2,955.50	3,787.99	3,439.77	348.22	10.878	
9,400.00	7,122.09	7,079.93	7,122.09	57.71	281.20	155.95	-2,281.82	2,955.50	3,757.30	3,406.13	351.17	10.699	
9,500.00	7,122.40	7,080.24	7,122.40	60.06	281.21	155.95	-2,281.82	2,955.50	3,729.04	3,374.91	354.13	10.530	
9,600.00	7,122.71	7,080.55	7,122.71	62.43	281.22	155.96	-2,281.82	2,955.50	3,703.27	3,346.16	357.10	10.370	
9,700.00	7,123.02	7,080.86	7,123.02	64.80	281.23	155.96	-2,281.82	2,955.50	3,680.03	3,319.95	360.08	10.220	
9,800.00	7,123.33	7,081.17	7,123.33	67.19	281.25	155.96	-2,281.82	2,955.50	3,659.38	3,296.30	363.08	10.079	
9,900.00	7,123.65	7,081.49	7,123.65	69.59	281.26	155.97	-2,281.82	2,955.50	3,641.36	3,275.28	366.08	9.947	
10,000.00	7,123.96	7,081.80	7,123.96	71.99	281.27	155.97	-2,281.82	2,955.50	3,626.01	3,256.92	369.08	9.824	
10,100.00	7,124.27	7,082.11	7,124.27	74.40	281.28	155.98	-2,281.82	2,955.50	3,613.36	3,241.26	372.10	9.711	
10,200.00	7,124.58	7,082.42	7,124.58	76.82	281.30	155.98	-2,281.82	2,955.50	3,603.45	3,228.33	375.12	9.606	
10,300.00	7,124.89	7,082.73	7,124.89	79.25	281.31	155.99	-2,281.82	2,955.50	3,596.28	3,218.14	378.15	9.510	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58M - OH - OH													Offset Site Error: 0.00 usft	
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,400.00	7,125.20	7,083.04	7,125.20	81.68	281.32	89.99	-2,281.82	2,955.50	3,591.89	3,210.71	381.18	9.423		
10,500.00	7,125.51	7,083.35	7,125.51	84.12	281.33	90.00	-2,281.82	2,955.50	3,590.28	3,206.07	384.21	9.344		
10,507.81	7,125.53	7,083.37	7,125.53	84.31	281.33	90.00	-2,281.82	2,955.50	3,590.27	3,205.30	384.98	9.326	CC	
10,600.00	7,125.82	7,083.66	7,125.82	86.56	281.35	90.00	-2,281.82	2,955.50	3,591.46	3,204.20	387.25	9.274	ES	
10,700.00	7,126.13	7,083.97	7,126.13	89.01	281.36	90.01	-2,281.82	2,955.50	3,595.41	3,205.12	390.30	9.212		
10,800.00	7,126.44	7,084.28	7,126.44	91.46	281.37	90.01	-2,281.82	2,955.50	3,602.14	3,208.80	393.35	9.158		
10,900.00	7,126.75	7,084.59	7,126.75	93.91	281.38	90.02	-2,281.82	2,955.50	3,611.63	3,215.23	396.40	9.111		
11,000.00	7,127.06	7,084.90	7,127.06	96.37	281.40	90.02	-2,281.82	2,955.50	3,623.85	3,224.40	399.45	9.072		
11,100.00	7,127.37	7,085.21	7,127.37	98.83	281.41	90.03	-2,281.82	2,955.50	3,638.78	3,236.28	402.51	9.040		
11,200.00	7,127.68	7,085.52	7,127.68	101.30	281.42	90.03	-2,281.82	2,955.50	3,656.39	3,250.82	405.57	9.015		
11,300.00	7,127.99	7,085.83	7,127.99	103.77	281.43	90.04	-2,281.82	2,955.50	3,676.63	3,268.00	408.63	8.997		
11,400.00	7,128.30	7,086.14	7,128.30	106.24	281.45	90.04	-2,281.82	2,955.50	3,699.47	3,287.77	411.69	8.986		
11,500.00	7,128.61	7,086.45	7,128.61	108.71	281.46	90.05	-2,281.82	2,955.50	3,724.85	3,310.09	414.76	8.981	SF	
11,600.00	7,128.92	7,086.76	7,128.92	111.19	281.47	90.05	-2,281.82	2,955.50	3,752.72	3,334.90	417.83	8.981		
11,700.00	7,129.23	7,087.07	7,129.23	113.66	281.48	90.06	-2,281.82	2,955.50	3,783.04	3,362.14	420.90	8.988		
11,800.00	7,129.54	7,087.38	7,129.54	116.14	281.50	90.06	-2,281.82	2,955.50	3,815.73	3,391.76	423.97	9.000		
11,900.00	7,129.85	7,087.69	7,129.85	118.62	281.51	90.07	-2,281.82	2,955.50	3,850.75	3,423.70	427.04	9.017		
12,000.00	7,130.16	7,088.00	7,130.16	121.11	281.52	90.07	-2,281.82	2,955.50	3,888.02	3,457.90	430.12	9.039		
12,100.00	7,130.47	7,088.31	7,130.47	123.59	281.53	90.08	-2,281.82	2,955.50	3,927.48	3,494.29	433.19	9.066		
12,200.00	7,130.78	7,088.62	7,130.78	126.08	281.54	90.08	-2,281.82	2,955.50	3,969.07	3,532.80	436.27	9.098		
12,300.00	7,131.09	7,088.93	7,131.09	128.57	281.56	90.09	-2,281.82	2,955.50	4,012.73	3,573.38	439.35	9.133		
12,400.00	7,131.40	7,089.24	7,131.40	131.06	281.57	90.09	-2,281.82	2,955.50	4,058.38	3,615.95	442.43	9.173		
12,500.00	7,131.71	7,089.55	7,131.71	133.55	281.58	90.10	-2,281.82	2,955.50	4,105.95	3,660.44	445.51	9.216		
12,600.00	7,132.02	7,089.86	7,132.02	136.04	281.59	90.10	-2,281.82	2,955.50	4,155.39	3,706.80	448.59	9.263		
12,700.00	7,132.33	7,090.17	7,132.33	138.54	281.61	90.11	-2,281.82	2,955.50	4,206.63	3,754.95	451.68	9.313		
12,800.00	7,132.64	7,090.48	7,132.64	141.03	281.62	90.11	-2,281.82	2,955.50	4,259.59	3,804.84	454.76	9.367		
12,900.00	7,132.95	7,090.79	7,132.95	143.53	281.63	90.12	-2,281.82	2,955.50	4,314.23	3,856.39	457.84	9.423		
13,000.00	7,133.26	7,091.10	7,133.26	146.02	281.64	90.12	-2,281.82	2,955.50	4,370.47	3,909.54	460.93	9.482		
13,100.00	7,133.57	7,091.41	7,133.57	148.52	281.66	90.13	-2,281.82	2,955.50	4,428.26	3,964.24	464.02	9.543		
13,200.00	7,133.88	7,091.72	7,133.88	151.02	281.67	90.13	-2,281.82	2,955.50	4,487.53	4,020.42	467.10	9.607		
13,300.00	7,134.19	7,092.03	7,134.19	153.52	281.68	90.14	-2,281.82	2,955.50	4,548.22	4,078.03	470.19	9.673		
13,400.00	7,134.50	7,092.34	7,134.50	156.02	281.69	90.14	-2,281.82	2,955.50	4,610.29	4,137.01	473.28	9.741		
13,500.00	7,134.81	7,092.65	7,134.81	158.52	281.71	90.15	-2,281.82	2,955.50	4,673.67	4,197.30	476.37	9.811		
13,600.00	7,135.12	7,092.96	7,135.12	161.03	281.72	90.15	-2,281.82	2,955.50	4,738.31	4,258.85	479.46	9.883		
13,700.00	7,135.43	7,093.27	7,135.43	163.53	281.73	90.16	-2,281.82	2,955.50	4,804.17	4,321.62	482.55	9.956		
13,800.00	7,135.74	7,093.58	7,135.74	166.03	281.74	90.16	-2,281.82	2,955.50	4,871.19	4,385.55	485.64	10.030		
13,900.00	7,136.05	7,093.89	7,136.05	168.54	281.76	90.17	-2,281.82	2,955.50	4,939.32	4,450.59	488.73	10.106		
14,000.00	7,136.36	7,094.20	7,136.36	171.04	281.77	90.17	-2,281.82	2,955.50	5,008.53	4,516.70	491.82	10.184		
14,100.00	7,136.67	7,094.51	7,136.67	173.55	281.78	90.18	-2,281.82	2,955.50	5,078.76	4,583.84	494.92	10.262		
14,200.00	7,136.98	7,094.82	7,136.98	176.05	281.79	90.18	-2,281.82	2,955.50	5,149.97	4,651.96	498.01	10.341		
14,300.00	7,137.29	7,095.13	7,137.29	178.56	281.81	90.19	-2,281.82	2,955.50	5,222.13	4,721.03	501.10	10.421		
14,400.00	7,137.60	7,095.44	7,137.60	181.07	281.82	90.19	-2,281.82	2,955.50	5,295.19	4,790.99	504.20	10.502		
14,500.00	7,137.91	7,095.75	7,137.91	183.58	281.83	90.20	-2,281.82	2,955.50	5,369.12	4,861.83	507.29	10.584		
14,600.00	7,138.22	7,096.06	7,138.22	186.09	281.84	90.20	-2,281.82	2,955.50	5,443.89	4,933.50	510.39	10.666		
14,700.00	7,138.53	7,096.37	7,138.53	188.59	281.85	90.21	-2,281.82	2,955.50	5,519.45	5,005.97	513.48	10.749		
14,800.00	7,138.84	7,096.68	7,138.84	191.10	281.87	90.21	-2,281.82	2,955.50	5,595.78	5,079.21	516.58	10.832		
14,900.00	7,139.15	7,096.99	7,139.15	193.61	281.88	90.22	-2,281.82	2,955.50	5,672.85	5,153.18	519.67	10.916		
15,000.00	7,139.46	7,097.30	7,139.46	196.13	281.89	90.22	-2,281.82	2,955.50	5,750.62	5,227.85	522.77	11.000		
15,100.00	7,139.77	7,097.61	7,139.77	198.64	281.90	90.23	-2,281.82	2,955.50	5,829.07	5,303.21	525.87	11.085		
15,200.00	7,140.08	7,097.92	7,140.08	201.15	281.92	90.23	-2,281.82	2,955.50	5,908.17	5,379.21	528.96	11.169		
15,300.00	7,140.39	7,098.23	7,140.39	203.66	281.93	90.24	-2,281.82	2,955.50	5,987.90	5,455.84	532.06	11.254		
15,400.00	7,140.70	7,098.54	7,140.70	206.17	281.94	90.24	-2,281.82	2,955.50	6,068.22	5,533.07	535.16	11.339		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 58M - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 100-UNKNOWN													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
15,500.00	7,141.01	7,098.85	7,141.01	208.68	281.95	90.25	-2,281.82	2,955.50	6,149.13	5,610.87	538.25	11.424	
15,600.00	7,141.32	7,099.16	7,141.32	211.20	281.97	90.25	-2,281.82	2,955.50	6,230.59	5,689.23	541.35	11.509	
15,700.00	7,141.63	7,099.47	7,141.63	213.71	281.98	90.26	-2,281.82	2,955.50	6,312.58	5,768.13	544.45	11.594	
15,800.00	7,141.94	7,099.78	7,141.94	216.22	281.99	90.26	-2,281.82	2,955.50	6,395.08	5,847.53	547.55	11.679	
15,900.00	7,142.25	7,100.09	7,142.25	218.74	282.00	90.27	-2,281.82	2,955.50	6,478.08	5,927.43	550.65	11.764	
16,000.00	7,142.56	7,100.40	7,142.56	221.25	282.02	90.27	-2,281.82	2,955.50	6,561.55	6,007.80	553.75	11.849	
16,100.00	7,142.87	7,100.71	7,142.87	223.77	282.03	90.28	-2,281.82	2,955.50	6,645.48	6,088.63	556.84	11.934	
16,200.00	7,143.18	7,101.02	7,143.18	226.28	282.04	90.28	-2,281.82	2,955.50	6,729.84	6,169.90	559.94	12.019	
16,300.00	7,143.49	7,101.33	7,143.49	228.80	282.05	90.29	-2,281.82	2,955.50	6,814.63	6,251.59	563.04	12.103	
16,400.00	7,143.80	7,101.64	7,143.80	231.31	282.07	90.29	-2,281.82	2,955.50	6,899.83	6,333.68	566.14	12.187	
16,500.00	7,144.11	7,101.95	7,144.11	233.83	282.08	90.30	-2,281.82	2,955.50	6,985.42	6,416.17	569.24	12.271	
16,600.00	7,144.42	7,102.26	7,144.42	236.34	282.09	90.30	-2,281.82	2,955.50	7,071.38	6,499.04	572.34	12.355	
16,700.00	7,144.73	7,102.57	7,144.73	238.86	282.10	90.31	-2,281.82	2,955.50	7,157.72	6,582.27	575.44	12.439	
16,800.00	7,145.05	7,102.89	7,145.05	241.37	282.12	90.31	-2,281.82	2,955.50	7,244.40	6,665.86	578.54	12.522	
16,900.00	7,145.36	7,103.20	7,145.36	243.89	282.13	90.32	-2,281.82	2,955.50	7,331.42	6,749.78	581.64	12.605	
17,000.00	7,145.67	7,103.51	7,145.67	246.41	282.14	90.32	-2,281.82	2,955.50	7,418.77	6,834.03	584.75	12.687	
17,100.00	7,145.98	7,103.82	7,145.98	248.93	282.15	90.33	-2,281.82	2,955.50	7,506.44	6,918.59	587.85	12.769	
17,200.00	7,146.29	7,104.13	7,146.29	251.44	282.17	90.33	-2,281.82	2,955.50	7,594.41	7,003.46	590.95	12.851	
17,300.00	7,146.60	7,104.44	7,146.60	253.96	282.18	90.34	-2,281.82	2,955.50	7,682.67	7,088.62	594.05	12.933	
17,400.00	7,146.91	7,104.75	7,146.91	256.48	282.19	90.34	-2,281.82	2,955.50	7,771.22	7,174.07	597.15	13.014	
17,430.36	7,147.00	7,104.84	7,147.00	257.24	282.19	90.34	-2,281.82	2,955.50	7,798.16	7,200.07	598.09	13.038	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Lateral - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-Gyro, 6315-Gyro													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-160.19	-18.82	-6.78	20.00					
100.00	100.00	100.00	100.00	0.08	0.00	-160.19	-18.82	-6.78	20.00	19.92	0.08	236.769		
200.00	200.00	200.00	200.00	0.31	0.00	-160.19	-18.82	-6.78	20.00	19.69	0.31	64.685		
300.00	300.00	300.00	300.00	0.53	0.00	-160.19	-18.82	-6.78	20.00	19.47	0.53	37.459 CC, ES		
400.00	400.00	399.72	399.70	0.76	0.00	-155.65	-18.82	-8.52	20.66	19.90	0.76	27.224		
500.00	500.00	499.21	499.05	0.98	0.00	-143.93	-18.81	-13.70	23.29	22.31	0.98	23.684		
600.00	600.00	598.48	597.95	1.21	0.00	-130.38	-18.81	-22.11	29.10	27.89	1.21	24.083		
700.00	700.00	698.05	697.11	1.43	0.00	-120.99	-18.80	-31.29	36.62	35.18	1.43	25.551		
800.00	800.00	797.62	796.26	1.66	0.00	-114.90	-18.79	-40.47	44.77	43.12	1.66	27.007		
900.00	900.00	897.20	895.41	1.88	0.00	-110.72	-18.78	-49.65	53.28	51.39	1.88	28.299		
1,000.00	1,000.00	996.77	994.56	2.11	0.00	-107.70	-18.77	-58.82	61.98	59.88	2.11	29.413		
1,100.00	1,099.98	1,096.39	1,093.75	2.33	0.00	-83.04	-18.76	-68.00	70.59	68.26	2.33	30.289		
1,200.00	1,199.84	1,196.02	1,192.95	2.56	0.00	-84.72	-18.75	-77.19	78.83	76.27	2.55	30.853		
1,300.00	1,299.45	1,295.53	1,292.04	2.79	0.00	-88.35	-18.74	-86.36	86.97	84.18	2.79	31.190		
1,400.00	1,398.70	1,394.81	1,390.90	3.03	0.00	-93.39	-18.73	-95.51	95.58	92.54	3.04	31.439		
1,500.00	1,497.47	1,493.73	1,489.40	3.30	0.00	-99.38	-18.73	-104.63	105.36	102.04	3.32	31.749		
1,600.00	1,595.62	1,592.18	1,587.43	3.61	0.00	-105.87	-18.72	-113.70	117.08	113.45	3.63	32.268		
1,700.00	1,693.06	1,690.03	1,684.86	3.95	0.00	-112.43	-18.71	-122.72	131.41	127.44	3.97	33.120		
1,800.00	1,789.64	1,787.16	1,781.58	4.35	0.00	-118.72	-18.70	-131.67	148.87	144.54	4.33	34.383		
1,900.00	1,885.30	1,883.49	1,877.50	4.80	0.00	-124.57	-18.69	-140.55	169.76	165.05	4.71	36.067		
2,000.00	1,980.64	1,979.54	1,973.14	5.29	0.00	-129.58	-18.68	-149.40	192.79	187.70	5.08	37.936		
2,100.00	2,075.99	2,075.60	2,068.79	5.80	0.00	-133.52	-18.67	-158.26	216.93	211.48	5.45	39.811		
2,200.00	2,171.34	2,171.66	2,164.44	6.33	0.00	-136.67	-18.67	-167.11	241.87	236.05	5.81	41.624		
2,300.00	2,266.68	2,267.71	2,260.09	6.87	0.00	-139.24	-18.66	-175.96	267.37	261.20	6.17	43.344		
2,400.00	2,362.03	2,363.77	2,355.74	7.41	0.00	-141.36	-18.65	-184.82	293.29	286.76	6.52	44.958		
2,500.00	2,457.38	2,459.83	2,451.38	7.97	0.00	-143.13	-18.64	-193.67	319.52	312.65	6.88	46.463		
2,600.00	2,552.72	2,555.88	2,547.03	8.53	0.00	-144.64	-18.63	-202.52	346.00	338.77	7.23	47.862		
2,700.00	2,648.07	2,651.94	2,642.68	9.10	0.00	-145.94	-18.62	-211.38	372.68	365.10	7.58	49.160		
2,800.00	2,743.42	2,748.00	2,738.33	9.67	0.00	-147.06	-18.61	-220.23	399.51	391.57	7.93	50.364		
2,900.00	2,838.77	2,844.05	2,833.98	10.24	0.00	-148.04	-18.61	-229.08	426.46	418.18	8.28	51.482		
3,000.00	2,934.11	2,940.11	2,929.62	10.82	0.00	-148.90	-18.60	-237.94	453.52	444.88	8.64	52.521		
3,100.00	3,029.46	3,036.17	3,025.27	11.40	0.00	-149.67	-18.59	-246.79	480.66	471.67	8.99	53.487		
3,200.00	3,124.81	3,132.22	3,120.92	11.98	0.00	-150.36	-18.58	-255.64	507.87	498.53	9.34	54.387		
3,300.00	3,220.15	3,228.28	3,216.57	12.56	0.00	-150.98	-18.57	-264.50	535.14	525.46	9.69	55.227		
3,400.00	3,315.50	3,324.34	3,312.22	13.14	0.00	-151.53	-18.56	-273.35	562.47	552.43	10.04	56.012		
3,500.00	3,410.85	3,420.40	3,407.86	13.73	0.00	-152.04	-18.55	-282.20	589.84	579.45	10.39	56.747		
3,600.00	3,506.19	3,516.45	3,503.51	14.32	0.00	-152.50	-18.55	-291.06	617.25	606.50	10.75	57.436		
3,700.00	3,601.54	3,612.51	3,599.16	14.91	0.00	-152.92	-18.54	-299.91	644.69	633.59	11.10	58.084		
3,800.00	3,696.89	3,708.57	3,694.81	15.50	0.00	-153.31	-18.53	-308.76	672.17	660.71	11.45	58.692		
3,900.00	3,792.24	3,804.62	3,790.46	16.09	0.00	-153.66	-18.52	-317.62	699.67	687.86	11.81	59.266		
4,000.00	3,887.58	3,900.68	3,886.10	16.68	0.00	-153.99	-18.51	-326.47	727.19	715.03	12.16	59.806		
4,100.00	3,982.93	3,996.74	3,981.75	17.27	0.00	-154.30	-18.50	-335.32	754.73	742.22	12.51	60.317		
4,200.00	4,078.28	4,092.79	4,077.40	17.86	0.00	-154.58	-18.49	-344.18	782.29	769.43	12.87	60.801		
4,300.00	4,173.62	4,188.85	4,173.05	18.45	0.00	-154.85	-18.49	-353.03	809.87	796.65	13.22	61.259		
4,400.00	4,268.97	4,284.91	4,268.70	19.05	0.00	-155.09	-18.48	-361.88	837.46	823.89	13.57	61.693		
4,500.00	4,364.32	4,380.96	4,364.34	19.64	0.00	-155.33	-18.47	-370.74	865.07	851.14	13.93	62.105		
4,600.00	4,459.67	4,477.02	4,459.99	20.23	0.00	-155.54	-18.46	-379.59	892.69	878.41	14.28	62.498		
4,700.00	4,555.01	4,573.08	4,555.64	20.83	0.00	-155.75	-18.45	-388.44	920.32	905.68	14.64	62.871		
4,800.00	4,650.36	4,669.13	4,651.29	21.42	0.00	-155.94	-18.44	-397.30	947.96	932.97	14.99	63.226		
4,900.00	4,745.71	4,765.19	4,746.94	22.02	0.00	-156.12	-18.43	-406.15	975.61	960.26	15.35	63.566		
5,000.00	4,841.05	4,861.25	4,842.58	22.61	0.00	-156.29	-18.43	-415.00	1,003.27	987.56	15.70	63.889		
5,100.00	4,936.40	4,957.31	4,938.23	23.21	0.00	-156.46	-18.42	-423.86	1,030.93	1,014.87	16.06	64.199		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Lateral - Plan #2												Offset Site Error:	0.00 usft
Survey Program: 0-Gyro, 6315-Gyro												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,031.75	5,053.36	5,033.88	23.80	0.00	-156.61	-18.41	-432.71	1,058.61	1,042.19	16.41	64.495	
5,300.00	5,127.09	5,149.42	5,129.53	24.40	0.00	-156.76	-18.40	-441.56	1,086.29	1,069.52	16.77	64.779	
5,400.00	5,222.44	5,245.48	5,225.18	25.00	0.00	-156.89	-18.39	-450.42	1,113.97	1,096.85	17.12	65.050	
5,500.00	5,317.79	5,341.53	5,320.82	25.59	0.00	-157.03	-18.38	-459.27	1,141.66	1,124.18	17.48	65.311	
5,600.00	5,413.14	5,437.59	5,416.47	26.19	0.00	-157.15	-18.37	-468.12	1,169.36	1,151.53	17.84	65.561	
5,700.00	5,508.48	5,533.65	5,512.12	26.78	0.00	-157.28	-18.37	-476.98	1,197.06	1,178.87	18.19	65.804	
5,800.00	5,604.35	5,630.16	5,608.22	27.24	0.00	-157.56	-18.36	-485.87	1,223.17	1,204.72	18.45	66.304	
5,900.00	5,701.15	5,727.48	5,705.12	27.65	0.00	-157.76	-18.35	-494.84	1,246.15	1,227.47	18.69	66.686	
6,000.00	5,798.77	5,825.48	5,802.71	28.02	0.00	-157.86	-18.34	-503.87	1,265.98	1,247.08	18.91	66.960	
6,100.00	5,897.08	5,924.05	5,900.86	28.35	0.00	-157.89	-18.33	-512.96	1,282.63	1,263.53	19.11	67.131	
6,200.00	5,995.98	6,023.07	5,999.46	28.63	0.00	-157.83	-18.32	-522.09	1,296.09	1,276.81	19.29	67.203	
6,300.00	6,095.33	6,122.42	6,098.38	28.87	0.00	-157.69	-18.31	-531.24	1,306.36	1,286.91	19.45	67.179	
6,400.00	6,195.01	6,221.97	6,197.51	29.06	0.00	-157.47	-18.31	-540.42	1,313.43	1,293.85	19.59	67.059	
6,500.00	6,294.91	6,321.09	6,296.27	29.20	0.00	-157.20	-18.30	-548.90	1,317.33	1,297.63	19.70	66.863	
6,600.00	6,394.89	6,419.09	6,394.20	29.30	0.00	89.32	-18.27	-549.01	1,318.23	1,298.48	19.75	66.744	
6,700.00	6,494.28	6,516.85	6,491.11	29.34	0.00	89.22	-18.22	-536.63	1,318.24	1,298.45	19.79	66.601	
6,800.00	6,591.26	6,614.21	6,585.45	29.31	0.00	89.17	-18.15	-512.05	1,318.24	1,298.45	19.78	66.628	
6,900.00	6,683.95	6,711.91	6,675.84	29.23	0.00	89.17	-18.04	-475.68	1,318.22	1,298.45	19.77	66.675	
7,000.00	6,770.55	6,809.47	6,760.92	29.09	0.00	89.22	-17.91	-428.07	1,318.19	1,298.39	19.80	66.563	
7,100.00	6,849.36	6,907.24	6,839.40	28.92	0.00	89.33	-17.76	-369.88	1,318.16	1,298.21	19.94	66.095	
7,200.00	6,918.86	7,005.35	6,910.04	28.73	0.00	89.48	-17.59	-301.89	1,318.12	1,297.86	20.26	65.071	
7,300.00	6,977.70	7,103.93	6,971.66	28.54	0.00	89.68	-17.41	-225.03	1,318.08	1,297.27	20.81	63.345	
7,358.47	7,007.93	7,161.86	7,003.08	28.42	0.00	89.76	-17.29	-176.37	1,318.07	1,296.62	21.45	61.439	
7,400.00	7,027.98	7,203.10	7,023.16	28.35	0.00	89.77	-17.20	-140.36	1,318.07	1,296.47	21.60	61.011	
7,500.00	7,070.01	7,302.20	7,063.23	28.19	0.00	89.69	-16.99	-49.79	1,318.09	1,295.43	22.66	58.161	
7,600.00	7,099.01	7,401.16	7,091.23	28.06	0.00	89.66	-16.77	45.05	1,318.11	1,294.07	24.04	54.838	
7,700.00	7,114.42	7,500.00	7,106.72	27.97	0.00	89.67	-16.54	142.60	1,318.12	1,292.44	25.69	51.319	
7,800.00	7,117.13	7,599.41	7,110.14	28.00	0.00	89.70	-16.32	241.90	1,318.14	1,290.59	27.54	47.860	
7,900.00	7,117.44	7,699.41	7,110.55	28.26	0.00	89.70	-16.09	341.90	1,318.15	1,288.57	29.58	44.562	
8,000.00	7,117.75	7,799.41	7,110.96	28.94	0.00	89.70	-15.87	441.90	1,318.17	1,286.39	31.78	41.480	
8,100.00	7,118.06	7,899.41	7,111.38	30.16	0.00	89.71	-15.64	541.90	1,318.19	1,284.08	34.11	38.645	
8,200.00	7,118.37	7,999.41	7,111.79	31.76	0.00	89.71	-15.41	641.90	1,318.21	1,281.66	36.55	36.065	
8,300.00	7,118.68	8,099.41	7,112.20	33.58	0.00	89.72	-15.19	741.90	1,318.23	1,279.15	39.08	33.730	
8,400.00	7,118.99	8,199.41	7,112.62	35.53	0.00	89.72	-14.96	841.90	1,318.25	1,276.56	41.69	31.622	
8,500.00	7,119.30	8,299.41	7,113.03	37.56	0.00	89.73	-14.74	941.89	1,318.27	1,273.91	44.35	29.721	
8,600.00	7,119.61	8,399.41	7,113.45	39.66	0.00	89.73	-14.51	1,041.89	1,318.29	1,271.21	47.07	28.004	
8,700.00	7,119.92	8,499.41	7,113.86	41.80	0.00	89.74	-14.28	1,141.89	1,318.31	1,268.47	49.84	26.452	
8,800.00	7,120.23	8,599.41	7,114.27	43.99	0.00	89.74	-14.06	1,241.89	1,318.33	1,265.69	52.64	25.046	
8,900.00	7,120.54	8,699.41	7,114.69	46.22	0.00	89.75	-13.83	1,341.89	1,318.34	1,262.88	55.47	23.768	
9,000.00	7,120.85	8,799.41	7,115.10	48.47	0.00	89.75	-13.61	1,441.89	1,318.36	1,260.04	58.33	22.603	
9,100.00	7,121.16	8,899.41	7,115.52	50.75	0.00	89.75	-13.38	1,541.89	1,318.38	1,257.18	61.21	21.540	
9,200.00	7,121.47	8,999.41	7,115.93	53.05	0.00	89.76	-13.15	1,641.89	1,318.40	1,254.29	64.11	20.565	
9,300.00	7,121.78	9,099.41	7,116.34	55.37	0.00	89.76	-12.93	1,741.89	1,318.42	1,251.39	67.03	19.670	
9,400.00	7,122.09	9,199.41	7,116.76	57.71	0.00	89.77	-12.70	1,841.88	1,318.44	1,248.48	69.96	18.845	
9,500.00	7,122.40	9,299.41	7,117.17	60.06	0.00	89.77	-12.48	1,941.88	1,318.46	1,245.55	72.91	18.084	
9,600.00	7,122.71	9,399.41	7,117.58	62.43	0.00	89.78	-12.25	2,041.88	1,318.48	1,242.61	75.87	17.379	
9,700.00	7,123.02	9,499.41	7,118.00	64.80	0.00	89.78	-12.02	2,141.88	1,318.50	1,239.66	78.84	16.724	
9,800.00	7,123.33	9,599.41	7,118.41	67.19	0.00	89.79	-11.80	2,241.88	1,318.52	1,236.70	81.82	16.115	
9,900.00	7,123.65	9,699.41	7,118.83	69.59	0.00	89.79	-11.57	2,341.88	1,318.54	1,233.73	84.81	15.548	
10,000.00	7,123.96	9,799.41	7,119.24	71.99	0.00	89.80	-11.35	2,441.88	1,318.55	1,230.75	87.80	15.018	
10,100.00	7,124.27	9,899.41	7,119.65	74.40	0.00	89.80	-11.12	2,541.88	1,318.57	1,227.77	90.80	14.521	
10,200.00	7,124.58	9,999.41	7,120.07	76.82	0.00	89.80	-10.89	2,641.87	1,318.59	1,224.78	93.81	14.056	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Lateral - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-Gyro, 6315-Gyro													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	7,124.89	10,099.41	7,120.48	79.25	0.00	89.81	-10.67	2,741.87	1,318.61	1,221.79	96.83	13.618		
10,400.00	7,125.20	10,199.41	7,120.90	81.68	0.00	89.81	-10.44	2,841.87	1,318.63	1,218.79	99.84	13.207		
10,500.00	7,125.51	10,299.41	7,121.31	84.12	0.00	89.82	-10.22	2,941.87	1,318.65	1,215.78	102.87	12.819		
10,600.00	7,125.82	10,399.41	7,121.72	86.56	0.00	89.82	-9.99	3,041.87	1,318.67	1,212.77	105.90	12.453		
10,700.00	7,126.13	10,499.41	7,122.14	89.01	0.00	89.83	-9.76	3,141.87	1,318.69	1,209.76	108.93	12.106		
10,800.00	7,126.44	10,599.41	7,122.55	91.46	0.00	89.83	-9.54	3,241.87	1,318.71	1,206.75	111.96	11.778		
10,900.00	7,126.75	10,699.41	7,122.96	93.91	0.00	89.84	-9.31	3,341.87	1,318.73	1,203.73	115.00	11.467		
11,000.00	7,127.06	10,799.41	7,123.38	96.37	0.00	89.84	-9.09	3,441.87	1,318.75	1,200.70	118.04	11.172		
11,100.00	7,127.37	10,899.41	7,123.79	98.83	0.00	89.84	-8.86	3,541.86	1,318.77	1,197.68	121.09	10.891		
11,200.00	7,127.68	10,999.41	7,124.21	101.30	0.00	89.85	-8.63	3,641.86	1,318.79	1,194.65	124.14	10.624		
11,300.00	7,127.99	11,099.41	7,124.62	103.77	0.00	89.85	-8.41	3,741.86	1,318.80	1,191.62	127.18	10.369		
11,400.00	7,128.30	11,199.41	7,125.03	106.24	0.00	89.86	-8.18	3,841.86	1,318.82	1,188.59	130.24	10.126		
11,500.00	7,128.61	11,299.41	7,125.45	108.71	0.00	89.86	-7.96	3,941.86	1,318.84	1,185.55	133.29	9.895		
11,600.00	7,128.92	11,399.41	7,125.86	111.19	0.00	89.87	-7.73	4,041.86	1,318.86	1,182.52	136.35	9.673		
11,700.00	7,129.23	11,499.41	7,126.28	113.66	0.00	89.87	-7.50	4,141.86	1,318.88	1,179.48	139.40	9.461		
11,800.00	7,129.54	11,599.41	7,126.69	116.14	0.00	89.88	-7.28	4,241.86	1,318.90	1,176.44	142.46	9.258		
11,900.00	7,129.85	11,699.41	7,127.10	118.62	0.00	89.88	-7.05	4,341.85	1,318.92	1,173.40	145.52	9.063		
12,000.00	7,130.16	11,799.41	7,127.52	121.11	0.00	89.89	-6.83	4,441.85	1,318.94	1,170.35	148.59	8.877		
12,100.00	7,130.47	11,899.41	7,127.93	123.59	0.00	89.89	-6.60	4,541.85	1,318.96	1,167.31	151.65	8.697		
12,200.00	7,130.78	11,999.41	7,128.34	126.08	0.00	89.89	-6.37	4,641.85	1,318.98	1,164.26	154.72	8.525		
12,300.00	7,131.09	12,099.41	7,128.76	128.57	0.00	89.90	-6.15	4,741.85	1,319.00	1,161.22	157.78	8.360		
12,400.00	7,131.40	12,199.41	7,129.17	131.06	0.00	89.90	-5.92	4,841.85	1,319.02	1,158.17	160.85	8.200		
12,500.00	7,131.71	12,299.41	7,129.59	133.55	0.00	89.91	-5.70	4,941.85	1,319.04	1,155.12	163.92	8.047		
12,600.00	7,132.02	12,399.41	7,130.00	136.04	0.00	89.91	-5.47	5,041.85	1,319.06	1,152.07	166.99	7.899		
12,700.00	7,132.33	12,499.41	7,130.41	138.54	0.00	89.92	-5.24	5,141.85	1,319.08	1,149.02	170.06	7.757		
12,800.00	7,132.64	12,599.41	7,130.83	141.03	0.00	89.92	-5.02	5,241.84	1,319.09	1,145.97	173.13	7.619		
12,900.00	7,132.95	12,699.41	7,131.24	143.53	0.00	89.93	-4.79	5,341.84	1,319.11	1,142.91	176.20	7.486		
13,000.00	7,133.26	12,799.41	7,131.66	146.02	0.00	89.93	-4.57	5,441.84	1,319.13	1,139.86	179.28	7.358		
13,100.00	7,133.57	12,899.41	7,132.07	148.52	0.00	89.93	-4.34	5,541.84	1,319.15	1,136.80	182.35	7.234		
13,200.00	7,133.88	12,999.41	7,132.48	151.02	0.00	89.94	-4.11	5,641.84	1,319.17	1,133.75	185.42	7.114		
13,300.00	7,134.19	13,099.41	7,132.90	153.52	0.00	89.94	-3.89	5,741.84	1,319.19	1,130.69	188.50	6.998		
13,400.00	7,134.50	13,199.41	7,133.31	156.02	0.00	89.95	-3.66	5,841.84	1,319.21	1,127.63	191.58	6.886		
13,500.00	7,134.81	13,299.41	7,133.72	158.52	0.00	89.95	-3.44	5,941.84	1,319.23	1,124.58	194.65	6.777		
13,600.00	7,135.12	13,399.41	7,134.14	161.03	0.00	89.96	-3.21	6,041.83	1,319.25	1,121.52	197.73	6.672		
13,700.00	7,135.43	13,499.41	7,134.55	163.53	0.00	89.96	-2.99	6,141.83	1,319.27	1,118.46	200.81	6.570		
13,800.00	7,135.74	13,599.41	7,134.97	166.03	0.00	89.97	-2.76	6,241.83	1,319.29	1,115.40	203.89	6.471		
13,900.00	7,136.05	13,699.41	7,135.38	168.54	0.00	89.97	-2.53	6,341.83	1,319.31	1,112.34	206.97	6.374		
14,000.00	7,136.36	13,799.41	7,135.79	171.04	0.00	89.98	-2.31	6,441.83	1,319.33	1,109.28	210.05	6.281		
14,100.00	7,136.67	13,899.41	7,136.21	173.55	0.00	89.98	-2.08	6,541.83	1,319.35	1,106.22	213.13	6.190		
14,200.00	7,136.98	13,999.41	7,136.62	176.05	0.00	89.98	-1.86	6,641.83	1,319.37	1,103.16	216.21	6.102		
14,300.00	7,137.29	14,099.41	7,137.04	178.56	0.00	89.99	-1.63	6,741.83	1,319.39	1,100.10	219.29	6.017		
14,400.00	7,137.60	14,199.41	7,137.45	181.07	0.00	89.99	-1.40	6,841.83	1,319.41	1,097.04	222.37	5.933		
14,500.00	7,137.91	14,299.41	7,137.86	183.58	0.00	90.00	-1.18	6,941.82	1,319.43	1,093.97	225.45	5.852		
14,600.00	7,138.22	14,399.41	7,138.28	186.09	0.00	90.00	-0.95	7,041.82	1,319.45	1,090.91	228.53	5.773		
14,700.00	7,138.53	14,499.41	7,138.69	188.59	0.00	90.01	-0.73	7,141.82	1,319.46	1,087.85	231.62	5.697		
14,800.00	7,138.84	14,599.41	7,139.11	191.10	0.00	90.01	-0.50	7,241.82	1,319.48	1,084.78	234.70	5.622		
14,900.00	7,139.15	14,699.41	7,139.52	193.61	0.00	90.02	-0.27	7,341.82	1,319.50	1,081.72	237.78	5.549		
15,000.00	7,139.46	14,799.41	7,139.93	196.13	0.00	90.02	-0.05	7,441.82	1,319.52	1,078.66	240.87	5.478		
15,100.00	7,139.77	14,899.41	7,140.35	198.64	0.00	90.02	0.18	7,541.82	1,319.54	1,075.59	243.95	5.409		
15,200.00	7,140.08	14,999.41	7,140.76	201.15	0.00	90.03	0.40	7,641.82	1,319.56	1,072.53	247.04	5.342		
15,300.00	7,140.39	15,099.41	7,141.17	203.66	0.00	90.03	0.63	7,741.82	1,319.58	1,069.46	250.12	5.276		
15,400.00	7,140.70	15,199.41	7,141.59	206.17	0.00	90.04	0.86	7,841.81	1,319.60	1,066.40	253.21	5.212		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Lateral - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-Gyro, 6315-Gyro													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.00	7,141.01	15,299.41	7,142.00	208.68	0.00	90.04	1.08	7,941.81	1,319.62	1,063.33	256.29	5.149		
15,600.00	7,141.32	15,399.41	7,142.42	211.20	0.00	90.05	1.31	8,041.81	1,319.64	1,060.26	259.38	5.088		
15,700.00	7,141.63	15,499.41	7,142.83	213.71	0.00	90.05	1.53	8,141.81	1,319.66	1,057.20	262.46	5.028		
15,800.00	7,141.94	15,599.41	7,143.24	216.22	0.00	90.06	1.76	8,241.81	1,319.68	1,054.13	265.55	4.970		
15,900.00	7,142.25	15,699.41	7,143.66	218.74	0.00	90.06	1.99	8,341.81	1,319.70	1,051.06	268.64	4.913		
16,000.00	7,142.56	15,799.41	7,144.07	221.25	0.00	90.07	2.21	8,441.81	1,319.72	1,048.00	271.72	4.857		
16,100.00	7,142.87	15,899.41	7,144.49	223.77	0.00	90.07	2.44	8,541.81	1,319.74	1,044.93	274.81	4.802		
16,200.00	7,143.18	15,999.41	7,144.90	226.28	0.00	90.07	2.66	8,641.80	1,319.76	1,041.86	277.90	4.749		
16,300.00	7,143.49	16,099.41	7,145.31	228.80	0.00	90.08	2.89	8,741.80	1,319.78	1,038.79	280.98	4.697		
16,400.00	7,143.80	16,199.41	7,145.73	231.31	0.00	90.08	3.12	8,841.80	1,319.80	1,035.73	284.07	4.646		
16,500.00	7,144.11	16,299.41	7,146.14	233.83	0.00	90.09	3.34	8,941.80	1,319.82	1,032.66	287.16	4.596		
16,600.00	7,144.42	16,399.41	7,146.55	236.34	0.00	90.09	3.57	9,041.80	1,319.84	1,029.59	290.25	4.547		
16,700.00	7,144.73	16,499.41	7,146.97	238.86	0.00	90.10	3.79	9,141.80	1,319.86	1,026.52	293.34	4.499		
16,800.00	7,145.05	16,599.41	7,147.38	241.37	0.00	90.10	4.02	9,241.80	1,319.88	1,023.45	296.42	4.453		
16,900.00	7,145.36	16,699.41	7,147.80	243.89	0.00	90.11	4.25	9,341.80	1,319.90	1,020.39	299.51	4.407		
17,000.00	7,145.67	16,799.41	7,148.21	246.41	0.00	90.11	4.47	9,441.80	1,319.92	1,017.32	302.60	4.362		
17,100.00	7,145.98	16,899.41	7,148.62	248.93	0.00	90.11	4.70	9,541.79	1,319.94	1,014.25	305.69	4.318		
17,200.00	7,146.29	16,999.40	7,149.04	251.44	0.00	90.12	4.92	9,641.79	1,319.96	1,011.18	308.78	4.275		
17,300.00	7,146.60	17,099.40	7,149.45	253.96	0.00	90.12	5.15	9,741.79	1,319.98	1,008.11	311.87	4.232		
17,400.00	7,146.91	17,199.40	7,149.87	256.48	0.00	90.13	5.38	9,841.79	1,320.00	1,005.04	314.96	4.191		
17,430.36	7,147.00	17,229.77	7,149.99	257.24	0.00	90.13	5.44	9,872.15	1,320.00	1,004.11	315.89	4.179 SF		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Pilot - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-Gyro												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	-160.19	-18.82	-6.78	20.00				
100.00	100.00	100.00	100.00	0.08	0.00	-160.19	-18.82	-6.78	20.00	19.92	0.08	236.769	
200.00	200.00	200.00	200.00	0.31	0.00	-160.19	-18.82	-6.78	20.00	19.69	0.31	64.685	
300.00	300.00	300.00	300.00	0.53	0.00	-160.19	-18.82	-6.78	20.00	19.47	0.53	37.459 CC, ES	
400.00	400.00	399.72	399.70	0.76	0.00	-155.65	-18.82	-8.52	20.66	19.90	0.76	27.224	
500.00	500.00	499.21	499.05	0.98	0.00	-143.93	-18.81	-13.70	23.29	22.31	0.98	23.684 SF	
600.00	600.00	598.48	597.95	1.21	0.00	-130.38	-18.81	-22.11	29.10	27.89	1.21	24.083	
700.00	700.00	698.05	697.11	1.43	0.00	-120.99	-18.80	-31.29	36.62	35.18	1.43	25.551	
800.00	800.00	797.62	796.26	1.66	0.00	-114.90	-18.79	-40.47	44.77	43.12	1.66	27.007	
900.00	900.00	897.20	895.41	1.88	0.00	-110.72	-18.78	-49.65	53.28	51.39	1.88	28.299	
1,000.00	1,000.00	996.77	994.56	2.11	0.00	-107.70	-18.77	-58.82	61.98	59.88	2.11	29.413	
1,100.00	1,099.98	1,096.39	1,093.75	2.33	0.00	-83.04	-18.76	-68.00	70.59	68.26	2.33	30.289	
1,200.00	1,199.84	1,196.02	1,192.95	2.56	0.00	-84.72	-18.75	-77.19	78.83	76.27	2.55	30.853	
1,300.00	1,299.45	1,295.53	1,292.04	2.79	0.00	-88.35	-18.74	-86.36	86.97	84.18	2.79	31.190	
1,400.00	1,398.70	1,394.81	1,390.90	3.03	0.00	-93.39	-18.73	-95.51	95.58	92.54	3.04	31.439	
1,500.00	1,497.47	1,493.73	1,489.40	3.30	0.00	-99.38	-18.73	-104.63	105.36	102.04	3.32	31.749	
1,600.00	1,595.62	1,592.18	1,587.43	3.61	0.00	-105.87	-18.72	-113.70	117.08	113.45	3.63	32.268	
1,700.00	1,693.06	1,690.03	1,684.86	3.95	0.00	-112.43	-18.71	-122.72	131.41	127.44	3.97	33.120	
1,800.00	1,789.64	1,787.16	1,781.58	4.35	0.00	-118.72	-18.70	-131.67	148.87	144.54	4.33	34.383	
1,900.00	1,885.30	1,883.49	1,877.50	4.80	0.00	-124.57	-18.69	-140.55	169.76	165.05	4.71	36.067	
2,000.00	1,880.64	1,879.54	1,873.14	5.29	0.00	-129.58	-18.68	-149.40	192.79	187.70	5.08	37.936	
2,100.00	2,075.99	2,075.60	2,068.79	5.80	0.00	-133.52	-18.67	-158.26	216.93	211.48	5.45	39.811	
2,200.00	2,171.34	2,171.66	2,164.44	6.33	0.00	-136.67	-18.67	-167.11	241.87	236.05	5.81	41.624	
2,300.00	2,266.68	2,267.71	2,260.09	6.87	0.00	-139.24	-18.66	-175.96	267.37	261.20	6.17	43.344	
2,400.00	2,362.03	2,363.77	2,355.74	7.41	0.00	-141.36	-18.65	-184.82	293.29	286.76	6.52	44.958	
2,500.00	2,457.38	2,459.83	2,451.38	7.97	0.00	-143.13	-18.64	-193.67	319.52	312.65	6.88	46.463	
2,600.00	2,552.72	2,555.88	2,547.03	8.53	0.00	-144.64	-18.63	-202.52	346.00	338.77	7.23	47.862	
2,700.00	2,648.07	2,651.94	2,642.68	9.10	0.00	-145.96	-18.62	-211.38	372.68	365.10	7.58	49.160	
2,800.00	2,743.42	2,748.00	2,738.33	9.67	0.00	-147.04	-18.61	-220.23	399.51	391.57	7.93	50.364	
2,900.00	2,838.77	2,844.05	2,833.98	10.24	0.00	-148.04	-18.61	-229.08	426.46	418.18	8.28	51.482	
3,000.00	2,934.11	2,940.11	2,929.62	10.82	0.00	-148.90	-18.60	-237.94	453.52	444.88	8.64	52.521	
3,100.00	3,029.46	3,036.17	3,025.27	11.40	0.00	-149.67	-18.59	-246.79	480.66	471.67	8.99	53.487	
3,200.00	3,124.81	3,132.22	3,120.92	11.98	0.00	-150.36	-18.58	-255.64	507.87	498.53	9.34	54.387	
3,300.00	3,220.15	3,228.28	3,216.57	12.56	0.00	-150.98	-18.57	-264.50	535.14	525.46	9.69	55.227	
3,400.00	3,315.50	3,324.34	3,312.22	13.14	0.00	-151.53	-18.56	-273.35	562.47	552.43	10.04	56.012	
3,500.00	3,410.85	3,420.40	3,407.86	13.73	0.00	-152.04	-18.55	-282.20	589.84	579.45	10.39	56.747	
3,600.00	3,506.19	3,516.45	3,503.51	14.32	0.00	-152.50	-18.55	-291.06	617.25	606.50	10.75	57.436	
3,700.00	3,601.54	3,612.51	3,599.16	14.91	0.00	-152.92	-18.54	-299.91	644.69	633.59	11.10	58.084	
3,800.00	3,696.89	3,708.57	3,694.81	15.50	0.00	-153.31	-18.53	-308.76	672.17	660.71	11.45	58.692	
3,900.00	3,792.24	3,804.62	3,790.46	16.09	0.00	-153.66	-18.52	-317.62	699.67	687.86	11.81	59.266	
4,000.00	3,887.58	3,900.68	3,886.10	16.68	0.00	-153.99	-18.51	-326.47	727.19	715.03	12.16	59.806	
4,100.00	3,982.93	3,996.74	3,981.75	17.27	0.00	-154.30	-18.50	-335.32	754.73	742.22	12.51	60.317	
4,200.00	4,078.28	4,092.79	4,077.40	17.86	0.00	-154.58	-18.49	-344.18	782.29	769.43	12.87	60.801	
4,300.00	4,173.62	4,188.85	4,173.05	18.45	0.00	-154.85	-18.49	-353.03	809.87	796.65	13.22	61.259	
4,400.00	4,268.97	4,284.91	4,268.70	19.05	0.00	-155.09	-18.48	-361.88	837.46	823.89	13.57	61.693	
4,500.00	4,364.32	4,380.96	4,364.34	19.64	0.00	-155.33	-18.47	-370.74	865.07	851.14	13.93	62.105	
4,600.00	4,459.67	4,477.02	4,459.99	20.23	0.00	-155.54	-18.46	-379.59	892.69	878.41	14.28	62.498	
4,700.00	4,555.01	4,573.08	4,555.64	20.83	0.00	-155.75	-18.45	-388.44	920.32	905.68	14.64	62.871	
4,800.00	4,650.36	4,669.13	4,651.29	21.42	0.00	-155.94	-18.44	-397.30	947.96	932.97	14.99	63.226	
4,900.00	4,745.71	4,765.19	4,746.94	22.02	0.00	-156.12	-18.43	-406.15	975.61	960.26	15.35	63.566	
5,000.00	4,841.05	4,861.25	4,842.58	22.61	0.00	-156.29	-18.43	-415.00	1,003.27	987.56	15.70	63.889	
5,100.00	4,936.40	4,957.31	4,938.23	23.21	0.00	-156.46	-18.42	-423.86	1,030.93	1,014.87	16.06	64.199	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Pilot - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-Gyro													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,031.75	5,053.36	5,033.88	23.80	0.00	-156.61	-18.41	-432.71	1,058.61	1,042.19	16.41	64.495		
5,300.00	5,127.09	5,149.42	5,129.53	24.40	0.00	-156.76	-18.40	-441.56	1,086.29	1,069.52	16.77	64.779		
5,400.00	5,222.44	5,245.48	5,225.18	25.00	0.00	-156.89	-18.39	-450.42	1,113.97	1,096.85	17.12	65.050		
5,500.00	5,317.79	5,341.53	5,320.82	25.59	0.00	-157.03	-18.38	-459.27	1,141.66	1,124.18	17.48	65.311		
5,600.00	5,413.14	5,437.59	5,416.47	26.19	0.00	-157.15	-18.37	-468.12	1,169.36	1,151.53	17.84	65.561		
5,700.00	5,508.48	5,533.65	5,512.12	26.78	0.00	-157.28	-18.37	-476.98	1,197.06	1,178.87	18.19	65.804		
5,800.00	5,604.35	5,630.16	5,608.22	27.24	0.00	-157.56	-18.36	-485.87	1,223.17	1,204.72	18.45	66.304		
5,900.00	5,701.15	5,727.48	5,705.12	27.65	0.00	-157.76	-18.35	-494.84	1,246.15	1,227.47	18.69	66.686		
6,000.00	5,798.77	5,825.48	5,802.71	28.02	0.00	-157.86	-18.34	-503.87	1,265.98	1,247.08	18.91	66.960		
6,100.00	5,897.08	5,924.05	5,900.86	28.35	0.00	-157.89	-18.33	-512.96	1,282.63	1,263.53	19.11	67.131		
6,200.00	5,995.98	6,023.07	5,999.46	28.63	0.00	-157.83	-18.32	-522.09	1,296.09	1,276.81	19.29	67.203		
6,300.00	6,095.33	6,122.42	6,098.38	28.87	0.00	-157.69	-18.31	-531.24	1,306.36	1,286.91	19.45	67.179		
6,400.00	6,195.01	6,221.97	6,197.51	29.06	0.00	-157.47	-18.31	-540.42	1,313.43	1,293.85	19.59	67.059		
6,500.00	6,294.91	6,321.18	6,296.35	29.20	0.00	-157.20	-18.30	-548.92	1,317.33	1,297.63	19.70	66.862		
6,600.00	6,394.89	6,420.41	6,395.44	29.30	0.00	89.55	-18.29	-554.26	1,318.18	1,298.38	19.80	66.576		
6,690.46	6,484.87	6,509.89	6,484.90	29.34	0.00	90.01	-18.29	-556.13	1,318.14	1,298.18	19.96	66.045		
6,700.00	6,494.28	6,519.28	6,494.28	29.34	0.00	90.08	-18.29	-556.16	1,318.14	1,298.16	19.98	65.977		
6,800.00	6,591.26	6,616.26	6,591.26	29.31	0.00	91.07	-18.29	-556.17	1,318.39	1,298.20	20.19	65.298		
6,900.00	6,683.95	6,708.95	6,683.95	29.23	0.00	92.47	-18.29	-556.17	1,319.65	1,299.20	20.45	64.545		
7,000.00	6,770.55	6,795.54	6,770.55	29.09	0.00	94.07	-18.29	-556.17	1,322.97	1,302.25	20.72	63.842		
7,100.00	6,849.36	6,874.36	6,849.36	28.92	0.00	95.62	-18.29	-556.17	1,329.62	1,308.61	21.01	63.289		
7,200.00	6,918.86	6,943.86	6,918.86	28.73	0.00	96.86	-18.29	-556.17	1,340.93	1,319.60	21.33	62.876		
7,300.00	6,977.70	7,002.69	6,977.70	28.54	0.00	97.50	-18.29	-556.17	1,358.08	1,336.33	21.75	62.452		
7,400.00	7,027.98	7,052.98	7,027.98	28.35	0.00	98.61	-18.29	-556.17	1,381.43	1,358.92	22.51	61.363		
7,500.00	7,070.01	7,095.00	7,070.01	28.19	0.00	97.76	-18.29	-556.17	1,411.21	1,387.86	23.35	60.437		
7,600.00	7,099.01	7,124.00	7,099.01	28.06	0.00	95.79	-18.29	-556.17	1,448.12	1,423.61	24.51	59.087		
7,700.00	7,114.42	7,139.42	7,114.42	27.97	0.00	92.58	-18.29	-556.17	1,491.71	1,465.79	25.92	57.554		
7,800.00	7,117.13	7,142.13	7,117.13	28.00	0.00	90.11	-18.29	-556.17	1,541.02	1,513.45	27.58	55.880		
7,900.00	7,117.44	7,142.44	7,117.44	28.26	0.00	90.12	-18.29	-556.17	1,595.12	1,565.51	29.62	53.589		
8,000.00	7,117.75	7,142.75	7,117.75	28.94	0.00	90.13	-18.29	-556.17	1,653.50	1,621.69	31.82	51.971		
8,100.00	7,118.06	7,143.06	7,118.06	30.16	0.00	90.15	-18.29	-556.17	1,715.73	1,681.58	34.15	50.244		
8,200.00	7,118.37	7,143.37	7,118.37	31.76	0.00	90.16	-18.29	-556.17	1,781.40	1,744.81	36.59	48.687		
8,300.00	7,118.68	7,143.68	7,118.68	33.58	0.00	90.18	-18.29	-556.17	1,850.15	1,811.03	39.12	47.295		
8,400.00	7,118.99	7,143.99	7,118.99	35.53	0.00	90.19	-18.29	-556.17	1,921.64	1,879.92	41.73	46.055		
8,500.00	7,119.30	7,144.30	7,119.30	37.56	0.00	90.20	-18.29	-556.17	1,995.59	1,951.19	44.39	44.953		
8,600.00	7,119.61	7,144.61	7,119.61	39.66	0.00	90.22	-18.29	-556.17	2,071.72	2,024.61	47.11	43.974		
8,700.00	7,119.92	7,144.92	7,119.92	41.80	0.00	90.23	-18.29	-556.17	2,149.81	2,099.94	49.87	43.104		
8,800.00	7,120.23	7,145.23	7,120.23	43.99	0.00	90.24	-18.29	-556.17	2,229.65	2,176.98	52.67	42.329		
8,900.00	7,120.54	7,145.54	7,120.54	46.22	0.00	90.26	-18.29	-556.17	2,311.06	2,255.55	55.51	41.636		
9,000.00	7,120.85	7,145.85	7,120.85	48.47	0.00	90.27	-18.29	-556.17	2,393.88	2,335.52	58.36	41.016		
9,100.00	7,121.16	7,146.16	7,121.16	50.75	0.00	90.28	-18.29	-556.17	2,477.97	2,416.72	61.25	40.460		
9,200.00	7,121.47	7,146.47	7,121.47	53.05	0.00	90.30	-18.29	-556.17	2,563.20	2,499.05	64.15	39.958		
9,300.00	7,121.78	7,146.78	7,121.78	55.37	0.00	90.31	-18.29	-556.17	2,649.46	2,582.39	67.07	39.506		
9,400.00	7,122.09	7,147.09	7,122.09	57.71	0.00	90.32	-18.29	-556.17	2,736.66	2,666.66	70.00	39.095		
9,500.00	7,122.40	7,147.40	7,122.40	60.06	0.00	90.34	-18.29	-556.17	2,824.70	2,751.76	72.95	38.723		
9,600.00	7,122.71	7,147.71	7,122.71	62.43	0.00	90.35	-18.29	-556.17	2,913.52	2,837.61	75.91	38.383		
9,700.00	7,123.02	7,148.02	7,123.02	64.80	0.00	90.36	-18.29	-556.17	3,003.04	2,924.16	78.88	38.073		
9,800.00	7,123.33	7,148.33	7,123.33	67.19	0.00	90.38	-18.29	-556.17	3,093.20	3,011.35	81.86	37.788		
9,900.00	7,123.65	7,148.64	7,123.65	69.59	0.00	90.39	-18.29	-556.17	3,183.96	3,099.11	84.84	37.527		
10,000.00	7,123.96	7,148.95	7,123.96	71.99	0.00	90.40	-18.29	-556.17	3,275.24	3,187.40	87.84	37.287		
10,100.00	7,124.27	7,149.26	7,124.27	74.40	0.00	90.42	-18.29	-556.17	3,367.03	3,276.19	90.84	37.065		
10,200.00	7,124.58	7,149.57	7,124.58	76.82	0.00	90.43	-18.29	-556.17	3,459.27	3,365.42	93.85	36.859		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Pilot - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-Gyro													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,124.89	7,149.88	7,124.89	79.25	0.00	90.44	-18.29	-556.17	3,551.93	3,455.06	96.86	36.669		
10,400.00	7,125.20	7,150.19	7,125.20	81.68	0.00	90.46	-18.29	-556.17	3,644.98	3,545.09	99.88	36.492		
10,500.00	7,125.51	7,150.50	7,125.51	84.12	0.00	90.47	-18.29	-556.17	3,738.38	3,635.47	102.91	36.327		
10,600.00	7,125.82	7,150.81	7,125.82	86.56	0.00	90.49	-18.29	-556.17	3,832.12	3,726.19	105.94	36.174		
10,700.00	7,126.13	7,151.12	7,126.13	89.01	0.00	90.50	-18.29	-556.17	3,926.17	3,817.20	108.97	36.031		
10,800.00	7,126.44	7,151.43	7,126.44	91.46	0.00	90.51	-18.29	-556.17	4,020.51	3,908.50	112.00	35.896		
10,900.00	7,126.75	7,151.74	7,126.75	93.91	0.00	90.53	-18.29	-556.17	4,115.11	4,000.07	115.04	35.771		
11,000.00	7,127.06	7,152.05	7,127.06	96.37	0.00	90.54	-18.29	-556.17	4,209.96	4,091.88	118.08	35.652		
11,100.00	7,127.37	7,152.36	7,127.37	98.83	0.00	90.55	-18.29	-556.17	4,305.05	4,183.92	121.13	35.541		
11,200.00	7,127.68	7,152.67	7,127.68	101.30	0.00	90.57	-18.29	-556.17	4,400.35	4,276.17	124.18	35.437		
11,300.00	7,127.99	7,152.98	7,127.99	103.77	0.00	90.58	-18.29	-556.17	4,495.86	4,368.63	127.22	35.338		
11,400.00	7,128.30	7,153.29	7,128.30	106.24	0.00	90.59	-18.29	-556.17	4,591.56	4,461.28	130.28	35.245		
11,500.00	7,128.61	7,153.60	7,128.61	108.71	0.00	90.61	-18.29	-556.17	4,687.43	4,554.10	133.33	35.156		
11,600.00	7,128.92	7,153.91	7,128.92	111.19	0.00	90.62	-18.29	-556.17	4,783.48	4,647.10	136.39	35.073		
11,700.00	7,129.23	7,154.22	7,129.23	113.66	0.00	90.63	-18.29	-556.17	4,879.69	4,740.24	139.44	34.994		
11,800.00	7,129.54	7,154.53	7,129.54	116.14	0.00	90.65	-18.29	-556.17	4,976.04	4,833.54	142.50	34.919		
11,900.00	7,129.85	7,154.84	7,129.85	118.62	0.00	90.66	-18.29	-556.17	5,072.54	4,926.98	145.56	34.848		
12,000.00	7,130.16	7,155.15	7,130.16	121.11	0.00	90.67	-18.29	-556.17	5,169.17	5,020.54	148.63	34.780		
12,100.00	7,130.47	7,155.46	7,130.47	123.59	0.00	90.69	-18.29	-556.17	5,265.92	5,114.23	151.69	34.715		
12,200.00	7,130.78	7,155.77	7,130.78	126.08	0.00	90.70	-18.29	-556.17	5,362.80	5,208.04	154.75	34.654		
12,300.00	7,131.09	7,156.08	7,131.09	128.57	0.00	90.71	-18.29	-556.17	5,459.79	5,301.96	157.82	34.595		
12,400.00	7,131.40	7,156.40	7,131.40	131.06	0.00	90.73	-18.29	-556.17	5,556.88	5,395.99	160.89	34.539		
12,500.00	7,131.71	7,156.71	7,131.71	133.55	0.00	90.74	-18.29	-556.17	5,654.07	5,490.12	163.96	34.485		
12,600.00	7,132.02	7,157.02	7,132.02	136.04	0.00	90.75	-18.29	-556.17	5,751.37	5,584.34	167.03	34.434		
12,700.00	7,132.33	7,157.33	7,132.33	138.54	0.00	90.77	-18.29	-556.17	5,848.75	5,678.65	170.10	34.385		
12,800.00	7,132.64	7,157.64	7,132.64	141.03	0.00	90.78	-18.29	-556.17	5,946.22	5,773.05	173.17	34.338		
12,900.00	7,132.95	7,157.95	7,132.95	143.53	0.00	90.80	-18.29	-556.17	6,043.77	5,867.53	176.24	34.293		
13,000.00	7,133.26	7,158.26	7,133.26	146.02	0.00	90.81	-18.29	-556.17	6,141.40	5,962.09	179.31	34.250		
13,100.00	7,133.57	7,158.57	7,133.57	148.52	0.00	90.82	-18.29	-556.17	6,239.11	6,056.72	182.39	34.208		
13,200.00	7,133.88	7,158.88	7,133.88	151.02	0.00	90.84	-18.29	-556.17	6,336.89	6,151.42	185.46	34.168		
13,300.00	7,134.19	7,159.19	7,134.19	153.52	0.00	90.85	-18.29	-556.17	6,434.73	6,246.19	188.54	34.130		
13,400.00	7,134.50	7,159.50	7,134.50	156.02	0.00	90.86	-18.29	-556.17	6,532.64	6,341.03	191.61	34.093		
13,500.00	7,134.81	7,159.81	7,134.81	158.52	0.00	90.88	-18.29	-556.17	6,630.62	6,435.93	194.69	34.058		
13,600.00	7,135.12	7,160.12	7,135.12	161.03	0.00	90.89	-18.29	-556.17	6,728.65	6,530.88	197.77	34.023		
13,700.00	7,135.43	7,160.43	7,135.43	163.53	0.00	90.90	-18.29	-556.17	6,826.74	6,625.90	200.84	33.990		
13,800.00	7,135.74	7,160.74	7,135.74	166.03	0.00	90.92	-18.29	-556.17	6,924.88	6,720.96	203.92	33.959		
13,900.00	7,136.05	7,161.05	7,136.05	168.54	0.00	90.93	-18.29	-556.17	7,023.08	6,816.08	207.00	33.928		
14,000.00	7,136.36	7,161.36	7,136.36	171.04	0.00	90.94	-18.29	-556.17	7,121.33	6,911.25	210.08	33.898		
14,100.00	7,136.67	7,161.67	7,136.67	173.55	0.00	90.96	-18.29	-556.17	7,219.62	7,006.46	213.16	33.870		
14,200.00	7,136.98	7,161.98	7,136.98	176.05	0.00	90.97	-18.29	-556.17	7,317.96	7,101.73	216.24	33.842		
14,300.00	7,137.29	7,162.29	7,137.29	178.56	0.00	90.98	-18.29	-556.17	7,416.35	7,197.03	219.32	33.815		
14,400.00	7,137.60	7,162.60	7,137.60	181.07	0.00	91.00	-18.29	-556.17	7,514.78	7,292.38	222.40	33.789		
14,500.00	7,137.91	7,162.91	7,137.91	183.58	0.00	91.01	-18.29	-556.17	7,613.25	7,387.77	225.48	33.764		
14,600.00	7,138.22	7,163.22	7,138.22	186.09	0.00	91.02	-18.29	-556.17	7,711.76	7,483.19	228.56	33.740		
14,700.00	7,138.53	7,163.53	7,138.53	188.59	0.00	91.04	-18.29	-556.17	7,810.30	7,578.66	231.65	33.717		
14,800.00	7,138.84	7,163.84	7,138.84	191.10	0.00	91.05	-18.29	-556.17	7,908.89	7,674.16	234.73	33.694		
14,900.00	7,139.15	7,164.15	7,139.15	193.61	0.00	91.06	-18.29	-556.17	8,007.50	7,769.69	237.81	33.672		
15,000.00	7,139.46	7,164.46	7,139.46	196.13	0.00	91.08	-18.29	-556.17	8,106.16	7,865.26	240.89	33.650		
15,100.00	7,139.77	7,164.77	7,139.77	198.64	0.00	91.09	-18.29	-556.17	8,204.84	7,960.87	243.98	33.630		
15,200.00	7,140.08	7,165.08	7,140.08	201.15	0.00	91.11	-18.29	-556.17	8,303.56	8,056.50	247.06	33.610		
15,300.00	7,140.39	7,165.39	7,140.39	203.66	0.00	91.12	-18.29	-556.17	8,402.30	8,152.16	250.14	33.590		
15,400.00	7,140.70	7,165.70	7,140.70	206.17	0.00	91.13	-18.29	-556.17	8,501.08	8,247.85	253.23	33.571		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 2H - Pilot - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-Gyro													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.00	7,141.01	7,166.01	7,141.01	208.68	0.00	91.15	-18.29	-556.17	8,599.88	8,343.57	256.31	33.552		
15,600.00	7,141.32	7,166.32	7,141.32	211.20	0.00	91.16	-18.29	-556.17	8,698.72	8,439.32	259.40	33.534		
15,700.00	7,141.63	7,166.63	7,141.63	213.71	0.00	91.17	-18.29	-556.17	8,797.57	8,535.09	262.48	33.517		
15,800.00	7,141.94	7,166.94	7,141.94	216.22	0.00	91.19	-18.29	-556.17	8,896.46	8,630.89	265.57	33.500		
15,900.00	7,142.25	7,167.25	7,142.25	218.74	0.00	91.20	-18.29	-556.17	8,995.36	8,726.71	268.65	33.483		
16,000.00	7,142.56	7,167.56	7,142.56	221.25	0.00	91.21	-18.29	-556.17	9,094.30	8,822.56	271.74	33.467		
16,100.00	7,142.87	7,167.87	7,142.87	223.77	0.00	91.23	-18.29	-556.17	9,193.25	8,918.43	274.82	33.452		
16,200.00	7,143.18	7,168.18	7,143.18	226.28	0.00	91.24	-18.29	-556.17	9,292.23	9,014.32	277.91	33.436		
16,300.00	7,143.49	7,168.49	7,143.49	228.80	0.00	91.25	-18.29	-556.17	9,391.23	9,110.23	280.99	33.422		
16,400.00	7,143.80	7,168.80	7,143.80	231.31	0.00	91.27	-18.29	-556.17	9,490.25	9,206.17	284.08	33.407		
16,500.00	7,144.11	7,169.11	7,144.11	233.83	0.00	91.28	-18.29	-556.17	9,589.29	9,302.12	287.17	33.393		
16,600.00	7,144.42	7,169.42	7,144.42	236.34	0.00	91.29	-18.29	-556.17	9,688.35	9,398.10	290.25	33.379		
16,700.00	7,144.73	7,169.73	7,144.73	238.86	0.00	91.31	-18.29	-556.17	9,787.43	9,494.09	293.34	33.366		
16,800.00	7,145.05	7,170.04	7,145.05	241.37	0.00	91.32	-18.29	-556.17	9,886.52	9,590.10	296.43	33.352		
16,900.00	7,145.36	7,170.35	7,145.36	243.89	0.00	91.33	-18.29	-556.17	9,985.64	9,686.13	299.51	33.340		
17,000.00	7,145.67	7,170.66	7,145.67	246.41	0.00	91.35	-18.29	-556.17	10,084.77	9,782.17	302.60	33.327		
17,100.00	7,145.98	7,170.97	7,145.98	248.93	0.00	91.36	-18.29	-556.17	10,183.92	9,878.24	305.69	33.315		
17,200.00	7,146.29	7,171.28	7,146.29	251.44	0.00	91.37	-18.29	-556.17	10,283.09	9,974.32	308.77	33.303		
17,300.00	7,146.60	7,171.59	7,146.60	253.96	0.00	91.39	-18.29	-556.17	10,382.27	10,070.41	311.86	33.291		
17,400.00	7,146.91	7,171.90	7,146.91	256.48	0.00	91.40	-18.29	-556.17	10,481.47	10,166.52	314.95	33.280		
17,430.36	7,147.00	7,172.00	7,147.00	257.24	0.00	91.41	-18.29	-556.17	10,511.59	10,195.71	315.89	33.277		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 3H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: O-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-160.18	-37.63	-13.56	40.00					
100.00	100.00	100.00	100.00	0.08	0.08	-160.18	-37.63	-13.56	40.00	39.83	0.17	237.275		
200.00	200.00	200.00	200.00	0.31	0.31	-160.18	-37.63	-13.56	40.00	39.38	0.62	64.712		
300.00	300.00	300.00	300.00	0.53	0.53	-160.18	-37.63	-13.56	40.00	38.93	1.07	37.465		
400.00	400.00	400.00	400.00	0.76	0.76	-160.18	-37.63	-13.56	40.00	38.48	1.52	26.364		
500.00	500.00	500.00	500.00	0.98	0.98	-160.18	-37.63	-13.56	40.00	38.03	1.97	20.338		
600.00	600.00	600.00	600.00	1.21	1.21	-160.18	-37.63	-13.56	40.00	37.58	2.42	16.554		
700.00	700.00	700.00	700.00	1.43	1.43	-160.18	-37.63	-13.56	40.00	37.13	2.87	13.957		
800.00	800.00	800.00	800.00	1.66	1.66	-160.18	-37.63	-13.56	40.00	36.68	3.32	12.065		
900.00	900.00	900.00	900.00	1.88	1.88	-160.18	-37.63	-13.56	40.00	36.23	3.76	10.624		
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	-160.18	-37.63	-13.56	40.00	35.78	4.21	9.491 CC, ES		
1,100.00	1,099.98	1,098.52	1,098.50	2.33	2.30	-138.01	-39.20	-14.20	43.00	38.36	4.63	9.279		
1,200.00	1,199.84	1,196.45	1,196.30	2.56	2.48	-141.31	-43.86	-16.11	52.11	47.07	5.03	10.350		
1,300.00	1,299.45	1,293.20	1,292.69	2.79	2.66	-144.77	-51.50	-19.24	67.48	62.04	5.44	12.396		
1,400.00	1,398.70	1,388.21	1,387.02	3.03	2.87	-147.54	-61.94	-23.50	89.12	83.26	5.86	15.206		
1,500.00	1,497.47	1,480.98	1,478.73	3.30	3.10	-149.52	-74.91	-28.81	116.86	110.58	6.28	18.598		
1,600.00	1,595.62	1,571.06	1,567.28	3.61	3.35	-150.87	-90.13	-35.04	150.52	143.81	6.71	22.420		
1,700.00	1,693.06	1,658.03	1,652.26	3.95	3.63	-151.75	-107.27	-42.05	189.84	182.69	7.15	26.546		
1,800.00	1,789.64	1,741.58	1,733.32	4.35	3.94	-152.31	-125.97	-49.70	234.57	226.98	7.60	30.875		
1,900.00	1,885.30	1,821.46	1,810.25	4.80	4.27	-152.74	-145.89	-57.85	284.37	276.31	8.06	35.283		
2,000.00	1,980.64	1,901.51	1,886.75	5.29	4.64	-153.28	-167.70	-66.77	337.05	328.49	8.56	39.356		
2,100.00	2,075.99	1,986.19	1,967.55	5.80	5.05	-153.68	-191.17	-76.38	390.20	381.11	9.09	42.908		
2,200.00	2,171.34	2,070.87	2,048.34	6.33	5.48	-153.97	-214.65	-85.98	443.36	433.72	9.64	46.001		
2,300.00	2,266.68	2,155.55	2,129.13	6.87	5.93	-154.21	-238.12	-95.59	496.52	486.33	10.19	48.707		
2,400.00	2,362.03	2,240.23	2,209.92	7.41	6.38	-154.40	-261.60	-105.19	549.69	538.93	10.76	51.084		
2,500.00	2,457.38	2,324.92	2,290.72	7.97	6.84	-154.55	-285.08	-114.80	602.87	591.53	11.34	53.182		
2,600.00	2,552.72	2,409.60	2,371.51	8.53	7.31	-154.68	-308.55	-124.40	656.04	644.12	11.92	55.043		
2,700.00	2,648.07	2,494.28	2,452.30	9.10	7.79	-154.79	-332.03	-134.01	709.22	696.71	12.51	56.699		
2,800.00	2,743.42	2,578.96	2,533.10	9.67	8.26	-154.89	-355.51	-143.61	762.40	749.30	13.10	58.179		
2,900.00	2,838.77	2,663.64	2,613.89	10.24	8.74	-154.97	-378.98	-153.22	815.58	801.88	13.71	59.509		
3,000.00	2,934.11	2,748.32	2,694.68	10.82	9.23	-155.04	-402.46	-162.82	868.76	854.45	14.31	60.709		
3,100.00	3,029.46	2,833.00	2,775.47	11.40	9.72	-155.11	-425.94	-172.43	921.95	907.03	14.92	61.796		
3,200.00	3,124.81	2,917.68	2,856.27	11.98	10.21	-155.17	-449.41	-182.03	975.13	959.60	15.53	62.784		
3,300.00	3,220.15	3,002.36	2,937.06	12.56	10.70	-155.22	-472.89	-191.64	1,028.31	1,012.17	16.15	63.686		
3,400.00	3,315.50	3,087.04	3,017.85	13.14	11.19	-155.26	-496.36	-201.24	1,081.50	1,064.73	16.76	64.510		
3,500.00	3,410.85	3,171.73	3,098.64	13.73	11.68	-155.31	-519.84	-210.84	1,134.68	1,117.30	17.39	65.266		
3,600.00	3,506.19	3,256.41	3,179.44	14.32	12.18	-155.34	-543.32	-220.45	1,187.87	1,169.86	18.01	65.963		
3,700.00	3,601.54	3,341.09	3,260.23	14.91	12.68	-155.38	-566.79	-230.05	1,241.06	1,222.42	18.63	66.606		
3,800.00	3,696.89	3,425.77	3,341.02	15.50	13.18	-155.41	-590.27	-239.66	1,294.24	1,274.98	19.26	67.201		
3,900.00	3,792.24	3,510.45	3,421.82	16.09	13.67	-155.44	-613.75	-249.26	1,347.43	1,327.54	19.89	67.753		
4,000.00	3,887.58	3,595.13	3,502.61	16.68	14.17	-155.47	-637.22	-258.87	1,400.62	1,380.10	20.52	68.267		
4,100.00	3,982.93	3,679.81	3,583.40	17.27	14.67	-155.49	-660.70	-268.47	1,453.80	1,432.65	21.15	68.745		
4,200.00	4,078.28	3,764.49	3,664.19	17.86	15.17	-155.52	-684.17	-278.08	1,506.99	1,485.21	21.78	69.192		
4,300.00	4,173.62	3,849.17	3,744.99	18.45	15.68	-155.54	-707.65	-287.68	1,560.18	1,537.76	22.41	69.610		
4,400.00	4,268.97	3,933.85	3,825.78	19.05	16.18	-155.56	-731.13	-297.29	1,613.36	1,590.32	23.05	70.003		
4,500.00	4,364.32	4,018.53	3,906.57	19.64	16.68	-155.58	-754.60	-306.89	1,666.55	1,642.87	23.68	70.371		
4,600.00	4,459.67	4,103.22	3,987.37	20.23	17.18	-155.60	-778.08	-316.50	1,719.74	1,695.42	24.32	70.718		
4,700.00	4,555.01	4,187.90	4,068.16	20.83	17.69	-155.61	-801.56	-326.10	1,772.93	1,747.97	24.96	71.044		
4,800.00	4,650.36	4,272.58	4,148.95	21.42	18.19	-155.63	-825.03	-335.71	1,826.12	1,800.52	25.59	71.352		
4,900.00	4,745.71	4,357.26	4,229.74	22.02	18.70	-155.64	-848.51	-345.31	1,879.30	1,853.07	26.23	71.643		
5,000.00	4,841.05	4,441.94	4,310.54	22.61	19.20	-155.66	-871.99	-354.92	1,932.49	1,905.62	26.87	71.919		
5,100.00	4,936.40	4,526.62	4,391.33	23.21	19.70	-155.67	-895.46	-364.52	1,985.68	1,958.17	27.51	72.180		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 3H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.00	5,031.75	4,611.30	4,472.12	23.80	20.21	-155.68	-918.94	-374.13	2,038.87	2,010.72	28.15	72.428		
5,300.00	5,127.09	4,695.98	4,552.91	24.40	20.71	-155.70	-942.41	-383.73	2,092.06	2,063.27	28.79	72.664		
5,400.00	5,222.44	4,780.66	4,633.71	25.00	21.22	-155.71	-965.89	-393.33	2,145.24	2,115.81	29.43	72.888		
5,500.00	5,317.79	4,865.34	4,714.50	25.59	21.73	-155.72	-989.37	-402.94	2,198.43	2,168.36	30.07	73.101		
5,600.00	5,413.14	4,950.03	4,795.29	26.19	22.23	-155.73	-1,012.84	-412.54	2,251.62	2,220.91	30.72	73.304		
5,700.00	5,508.48	5,034.71	4,876.09	26.78	22.74	-155.75	-1,036.32	-422.15	2,304.81	2,273.45	31.36	73.492		
5,800.00	5,604.35	5,120.24	4,957.70	27.24	23.25	-156.23	-1,060.03	-431.85	2,356.60	2,324.46	32.14	73.317		
5,900.00	5,701.15	5,207.37	5,040.82	27.65	23.77	-156.63	-1,084.19	-441.73	2,405.63	2,372.74	32.90	73.129		
6,000.00	5,798.77	5,295.99	5,125.37	28.02	24.30	-156.95	-1,108.75	-451.78	2,451.85	2,418.24	33.62	72.937		
6,100.00	5,897.08	5,385.98	5,211.23	28.35	24.84	-157.21	-1,133.70	-461.99	2,495.21	2,460.91	34.30	72.745		
6,200.00	5,995.98	5,477.24	5,298.30	28.63	25.38	-157.41	-1,159.00	-472.34	2,535.65	2,500.71	34.95	72.560		
6,300.00	6,095.33	5,569.66	5,386.48	28.87	25.94	-157.54	-1,184.63	-482.83	2,573.14	2,537.60	35.55	72.383		
6,400.00	6,195.01	5,663.13	5,475.65	29.06	26.50	-157.62	-1,210.54	-493.43	2,607.65	2,571.54	36.11	72.218		
6,500.00	6,294.91	5,757.70	5,572.21	29.20	28.23	-157.04	-1,309.59	-533.95	2,634.50	2,596.97	37.53	70.197		
6,600.00	6,394.89	5,856.32	5,634.16	29.30	29.05	89.66	-1,340.14	-545.67	2,640.05	2,601.56	38.49	68.591		
6,700.00	6,494.28	5,954.07	5,719.19	29.34	29.07	89.63	-1,340.11	-534.48	2,640.06	2,601.47	38.59	68.418		
6,800.00	6,591.26	6,071.70	5,855.67	29.31	29.04	89.61	-1,340.05	-510.23	2,640.07	2,601.57	38.49	68.583		
6,900.00	6,683.95	6,189.24	5,975.91	29.23	28.95	89.60	-1,339.96	-473.41	2,640.07	2,601.81	38.26	69.002		
7,000.00	6,770.55	6,296.74	6,100.28	29.09	28.82	89.60	-1,339.84	-424.69	2,640.07	2,602.11	37.96	69.544		
7,100.00	6,849.36	6,384.24	6,183.27	28.92	28.65	89.61	-1,339.70	-364.98	2,640.07	2,602.36	37.70	70.020		
7,200.00	6,918.86	6,461.80	6,260.46	28.73	28.47	89.62	-1,339.53	-295.32	2,640.06	2,602.45	37.62	70.183		
7,300.00	6,977.70	6,529.45	6,326.62	28.54	28.29	89.64	-1,339.33	-216.97	2,640.06	2,602.22	37.84	69.768		
7,400.00	7,027.98	6,598.55	6,403.83	28.35	28.13	89.65	-1,339.13	-131.55	2,640.06	2,601.58	38.48	68.610		
7,500.00	7,070.01	6,674.61	6,486.14	28.19	28.00	89.68	-1,338.91	-43.39	2,640.05	2,600.43	39.62	66.640		
7,600.00	7,099.01	6,747.47	6,568.10	28.06	27.93	89.71	-1,338.68	49.91	2,640.04	2,598.77	41.27	63.965		
7,700.00	7,114.42	6,812.76	6,643.06	27.97	27.93	89.75	-1,338.44	146.64	2,640.03	2,596.61	43.42	60.800		
7,800.00	7,117.13	6,871.68	6,707.11	28.00	28.07	89.78	-1,338.20	245.42	2,640.02	2,594.05	45.98	57.417		
7,900.00	7,117.44	6,931.68	6,787.53	28.26	28.44	89.78	-1,337.96	345.42	2,640.02	2,591.10	48.93	53.956		
8,000.00	7,117.75	6,991.68	6,867.94	28.94	29.15	89.79	-1,337.71	445.42	2,640.02	2,587.83	52.19	50.581		
8,100.00	7,118.06	7,051.68	6,948.35	30.16	30.24	89.79	-1,337.47	545.42	2,640.02	2,584.30	55.73	47.373		
8,200.00	7,118.37	7,111.68	7,028.77	31.76	31.68	89.79	-1,337.22	645.41	2,640.02	2,580.54	59.48	44.382		
8,300.00	7,118.68	7,211.68	7,109.18	33.58	33.36	89.79	-1,336.97	745.41	2,640.02	2,576.60	63.42	41.626		
8,400.00	7,118.99	7,311.68	7,209.60	35.53	35.20	89.80	-1,336.73	845.41	2,640.02	2,572.51	67.51	39.105		
8,500.00	7,119.30	7,411.68	7,310.01	37.56	37.16	89.80	-1,336.48	945.41	2,640.02	2,568.30	71.72	36.808		
8,600.00	7,119.61	7,511.68	7,410.42	39.66	39.20	89.80	-1,336.24	1,045.41	2,640.02	2,563.98	76.04	34.719		
8,700.00	7,119.92	7,611.68	7,510.84	41.80	41.31	89.80	-1,335.99	1,145.41	2,640.02	2,559.58	80.44	32.819		
8,800.00	7,120.23	7,711.68	7,611.25	43.99	43.46	89.81	-1,335.75	1,245.41	2,640.02	2,555.10	84.92	31.089		
8,900.00	7,120.54	7,811.68	7,711.67	46.22	45.66	89.81	-1,335.50	1,345.41	2,640.02	2,550.56	89.46	29.512		
9,000.00	7,120.85	7,911.68	7,812.08	48.47	47.90	89.81	-1,335.26	1,445.40	2,640.02	2,545.97	94.05	28.071		
9,100.00	7,121.16	8,011.68	7,912.49	50.75	50.16	89.81	-1,335.01	1,545.40	2,640.02	2,541.34	98.68	26.752		
9,200.00	7,121.47	8,111.68	8,012.91	53.05	52.44	89.81	-1,334.76	1,645.40	2,640.02	2,536.66	103.36	25.542		
9,300.00	7,121.78	8,211.68	8,113.32	55.37	54.75	89.82	-1,334.52	1,745.40	2,640.02	2,531.95	108.07	24.429		
9,400.00	7,122.09	8,311.68	8,213.74	57.71	57.08	89.82	-1,334.27	1,845.40	2,640.02	2,527.21	112.81	23.402		
9,500.00	7,122.40	8,411.68	8,314.15	60.06	59.42	89.82	-1,334.03	1,945.40	2,640.02	2,522.44	117.58	22.453		
9,600.00	7,122.71	8,511.68	8,414.56	62.43	61.78	89.82	-1,333.78	2,045.40	2,640.02	2,517.65	122.37	21.575		
9,700.00	7,123.02	8,611.68	8,514.98	64.80	64.15	89.83	-1,333.54	2,145.40	2,640.02	2,512.84	127.18	20.758		
9,800.00	7,123.33	8,711.68	8,615.39	67.19	66.53	89.83	-1,333.29	2,245.40	2,640.02	2,508.01	132.01	19.999		
9,900.00	7,123.65	8,811.68	8,715.80	69.59	68.92	89.83	-1,333.05	2,345.39	2,640.02	2,503.16	136.85	19.291		
10,000.00	7,123.96	8,911.68	8,816.22	71.99	71.32	89.83	-1,332.80	2,445.39	2,640.02	2,498.30	141.71	18.629		
10,100.00	7,124.27	9,011.68	8,916.63	74.40	73.73	89.83	-1,332.55	2,545.39	2,640.02	2,493.43	146.59	18.010		
10,200.00	7,124.58	9,111.68	9,017.05	76.82	76.15	89.84	-1,332.31	2,645.39	2,640.02	2,488.54	151.47	17.429		
10,300.00	7,124.89	9,211.68	9,117.46	79.25	78.57	89.84	-1,332.06	2,745.39	2,640.02	2,483.65	156.37	16.883		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 3H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	10,371.68	7,117.87	81.68	81.00	89.84	-1,331.82	2,845.39	2,640.01	2,478.74	161.27	16.370		
10,500.00	7,125.51	10,471.68	7,118.29	84.12	83.44	89.84	-1,331.57	2,945.39	2,640.01	2,473.83	166.19	15.886		
10,600.00	7,125.82	10,571.68	7,118.70	86.56	85.88	89.85	-1,331.33	3,045.39	2,640.01	2,468.90	171.11	15.429		
10,700.00	7,126.13	10,671.68	7,119.12	89.01	88.32	89.85	-1,331.08	3,145.38	2,640.01	2,463.97	176.04	14.996		
10,800.00	7,126.44	10,771.68	7,119.53	91.46	90.77	89.85	-1,330.84	3,245.38	2,640.01	2,459.03	180.98	14.587		
10,900.00	7,126.75	10,871.68	7,119.94	93.91	93.23	89.85	-1,330.59	3,345.38	2,640.01	2,454.09	185.92	14.199		
11,000.00	7,127.06	10,971.68	7,120.36	96.37	95.68	89.85	-1,330.34	3,445.38	2,640.01	2,449.14	190.87	13.831		
11,100.00	7,127.37	11,071.68	7,120.77	98.83	98.14	89.86	-1,330.10	3,545.38	2,640.01	2,444.18	195.83	13.481		
11,200.00	7,127.68	11,171.68	7,121.19	101.30	100.61	89.86	-1,329.85	3,645.38	2,640.01	2,439.22	200.79	13.148		
11,300.00	7,127.99	11,271.68	7,121.60	103.77	103.07	89.86	-1,329.61	3,745.38	2,640.01	2,434.26	205.75	12.831		
11,400.00	7,128.30	11,371.68	7,122.01	106.24	105.54	89.86	-1,329.36	3,845.38	2,640.01	2,429.29	210.72	12.528		
11,500.00	7,128.61	11,471.68	7,122.43	108.71	108.02	89.87	-1,329.12	3,945.37	2,640.01	2,424.31	215.70	12.239		
11,600.00	7,128.92	11,571.68	7,122.84	111.19	110.49	89.87	-1,328.87	4,045.37	2,640.01	2,419.34	220.67	11.963		
11,700.00	7,129.23	11,671.68	7,123.26	113.66	112.97	89.87	-1,328.63	4,145.37	2,640.01	2,414.36	225.65	11.699		
11,800.00	7,129.54	11,771.68	7,123.67	116.14	115.45	89.87	-1,328.38	4,245.37	2,640.01	2,409.37	230.64	11.447		
11,900.00	7,129.85	11,871.68	7,124.08	118.62	117.93	89.87	-1,328.13	4,345.37	2,640.01	2,404.39	235.63	11.204		
12,000.00	7,130.16	11,971.68	7,124.50	121.11	120.41	89.88	-1,327.89	4,445.37	2,640.01	2,399.40	240.61	10.972		
12,100.00	7,130.47	12,071.68	7,124.91	123.59	122.90	89.88	-1,327.64	4,545.37	2,640.01	2,394.40	245.61	10.749		
12,200.00	7,130.78	12,171.68	7,125.33	126.08	125.38	89.88	-1,327.40	4,645.37	2,640.01	2,389.41	250.60	10.535		
12,300.00	7,131.09	12,271.68	7,125.74	128.57	127.87	89.88	-1,327.15	4,745.36	2,640.01	2,384.41	255.60	10.329		
12,400.00	7,131.40	12,371.68	7,126.15	131.06	130.36	89.89	-1,326.91	4,845.36	2,640.01	2,379.41	260.60	10.131		
12,500.00	7,131.71	12,471.68	7,126.57	133.55	132.85	89.89	-1,326.66	4,945.36	2,640.01	2,374.41	265.60	9.940		
12,600.00	7,132.02	12,571.68	7,126.98	136.04	135.34	89.89	-1,326.42	5,045.36	2,640.01	2,369.40	270.60	9.756		
12,700.00	7,132.33	12,671.68	7,127.40	138.54	137.84	89.89	-1,326.17	5,145.36	2,640.01	2,364.40	275.61	9.579		
12,800.00	7,132.64	12,771.68	7,127.81	141.03	140.33	89.90	-1,325.92	5,245.36	2,640.01	2,359.39	280.62	9.408		
12,900.00	7,132.95	12,871.68	7,128.22	143.53	142.83	89.90	-1,325.68	5,345.36	2,640.01	2,354.38	285.63	9.243		
13,000.00	7,133.26	12,971.68	7,128.64	146.02	145.32	89.90	-1,325.43	5,445.36	2,640.01	2,349.37	290.64	9.084		
13,100.00	7,133.57	13,071.68	7,129.05	148.52	147.82	89.90	-1,325.19	5,545.36	2,640.01	2,344.36	295.65	8.930		
13,200.00	7,133.88	13,171.68	7,129.47	151.02	150.32	89.90	-1,324.94	5,645.35	2,640.01	2,339.34	300.66	8.781		
13,300.00	7,134.19	13,271.68	7,129.88	153.52	152.82	89.91	-1,324.70	5,745.35	2,640.01	2,334.33	305.68	8.637		
13,400.00	7,134.50	13,371.68	7,130.29	156.02	155.32	89.91	-1,324.45	5,845.35	2,640.01	2,329.31	310.70	8.497		
13,500.00	7,134.81	13,471.68	7,130.71	158.52	157.82	89.91	-1,324.21	5,945.35	2,640.01	2,324.29	315.71	8.362		
13,600.00	7,135.12	13,571.68	7,131.12	161.03	160.33	89.91	-1,323.96	6,045.35	2,640.01	2,319.27	320.73	8.231		
13,700.00	7,135.43	13,671.68	7,131.54	163.53	162.83	89.92	-1,323.71	6,145.35	2,640.01	2,314.25	325.75	8.104		
13,800.00	7,135.74	13,771.68	7,131.95	166.03	165.33	89.92	-1,323.47	6,245.35	2,640.01	2,309.23	330.77	7.981		
13,900.00	7,136.05	13,871.68	7,132.36	168.54	167.84	89.92	-1,323.22	6,345.35	2,640.01	2,304.21	335.79	7.862		
14,000.00	7,136.36	13,971.68	7,132.78	171.04	170.34	89.92	-1,322.98	6,445.34	2,640.01	2,299.19	340.82	7.746		
14,100.00	7,136.67	14,071.68	7,133.19	173.55	172.85	89.92	-1,322.73	6,545.34	2,640.01	2,294.16	345.84	7.634		
14,200.00	7,136.98	14,171.68	7,133.60	176.05	175.35	89.93	-1,322.49	6,645.34	2,640.01	2,289.14	350.87	7.524		
14,300.00	7,137.29	14,271.68	7,134.02	178.56	177.86	89.93	-1,322.24	6,745.34	2,640.01	2,284.11	355.89	7.418		
14,400.00	7,137.60	14,371.68	7,134.43	181.07	180.37	89.93	-1,322.00	6,845.34	2,640.00	2,279.09	360.92	7.315		
14,500.00	7,137.91	14,471.68	7,134.85	183.58	182.88	89.93	-1,321.75	6,945.34	2,640.00	2,274.06	365.95	7.214		
14,600.00	7,138.22	14,571.68	7,135.26	186.09	185.39	89.94	-1,321.50	7,045.34	2,640.00	2,269.03	370.98	7.116		
14,700.00	7,138.53	14,671.68	7,135.67	188.59	187.89	89.94	-1,321.26	7,145.34	2,640.00	2,264.00	376.00	7.021		
14,800.00	7,138.84	14,771.68	7,136.09	191.10	190.40	89.94	-1,321.01	7,245.33	2,640.00	2,258.97	381.03	6.929		
14,900.00	7,139.15	14,871.67	7,136.50	193.61	192.91	89.94	-1,320.77	7,345.33	2,640.00	2,253.94	386.06	6.838		
15,000.00	7,139.46	14,971.67	7,136.92	196.13	195.42	89.94	-1,320.52	7,445.33	2,640.00	2,248.91	391.10	6.750		
15,100.00	7,139.77	15,071.67	7,137.33	198.64	197.94	89.95	-1,320.28	7,545.33	2,640.00	2,243.88	396.13	6.665		
15,200.00	7,140.08	15,171.67	7,137.74	201.15	200.45	89.95	-1,320.03	7,645.33	2,640.00	2,238.84	401.16	6.581		
15,300.00	7,140.39	15,271.67	7,138.16	203.66	202.96	89.95	-1,319.79	7,745.33	2,640.00	2,233.81	406.19	6.499		
15,400.00	7,140.70	15,371.67	7,138.57	206.17	205.47	89.95	-1,319.54	7,845.33	2,640.00	2,228.78	411.23	6.420		
15,500.00	7,141.01	15,471.67	7,138.99	208.68	207.98	89.96	-1,319.29	7,945.33	2,640.00	2,223.74	416.26	6.342		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 3H - OH - Plan #2													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,600.00	7,141.32	15,571.67	7,139.40	211.20	210.50	89.96	-1,319.05	8,045.32	2,640.00	2,218.71	421.29	6.266		
15,700.00	7,141.63	15,671.67	7,139.81	213.71	213.01	89.96	-1,318.80	8,145.32	2,640.00	2,213.67	426.33	6.192		
15,800.00	7,141.94	15,771.67	7,140.23	216.22	215.52	89.96	-1,318.56	8,245.32	2,640.00	2,208.64	431.36	6.120		
15,900.00	7,142.25	15,871.67	7,140.64	218.74	218.04	89.97	-1,318.31	8,345.32	2,640.00	2,203.60	436.40	6.050		
16,000.00	7,142.56	15,971.67	7,141.06	221.25	220.55	89.97	-1,318.07	8,445.32	2,640.00	2,198.57	441.44	5.980		
16,100.00	7,142.87	16,071.67	7,141.47	223.77	223.07	89.97	-1,317.82	8,545.32	2,640.00	2,193.53	446.47	5.913		
16,200.00	7,143.18	16,171.67	7,141.88	226.28	225.58	89.97	-1,317.58	8,645.32	2,640.00	2,188.49	451.51	5.847		
16,300.00	7,143.49	16,271.67	7,142.30	228.80	228.10	89.97	-1,317.33	8,745.32	2,640.00	2,183.45	456.55	5.783		
16,400.00	7,143.80	16,371.67	7,142.71	231.31	230.61	89.98	-1,317.08	8,845.32	2,640.00	2,178.42	461.59	5.719		
16,500.00	7,144.11	16,471.67	7,143.13	233.83	233.13	89.98	-1,316.84	8,945.31	2,640.00	2,173.38	466.62	5.658		
16,600.00	7,144.42	16,571.67	7,143.54	236.34	235.64	89.98	-1,316.59	9,045.31	2,640.00	2,168.34	471.66	5.597		
16,700.00	7,144.73	16,671.67	7,143.95	238.86	238.16	89.98	-1,316.35	9,145.31	2,640.00	2,163.30	476.70	5.538		
16,800.00	7,145.05	16,771.67	7,144.37	241.37	240.67	89.99	-1,316.10	9,245.31	2,640.00	2,158.26	481.74	5.480		
16,900.00	7,145.36	16,871.67	7,144.78	243.89	243.19	89.99	-1,315.86	9,345.31	2,640.00	2,153.22	486.78	5.423		
17,000.00	7,145.67	16,971.67	7,145.20	246.41	245.71	89.99	-1,315.61	9,445.31	2,640.00	2,148.18	491.82	5.368		
17,100.00	7,145.98	17,071.67	7,145.61	248.93	248.23	89.99	-1,315.36	9,545.31	2,640.00	2,143.14	496.86	5.313		
17,200.00	7,146.29	17,171.67	7,146.02	251.44	250.74	89.99	-1,315.12	9,645.31	2,640.00	2,138.10	501.90	5.260		
17,300.00	7,146.60	17,271.67	7,146.44	253.96	253.26	90.00	-1,314.87	9,745.30	2,640.00	2,133.06	506.94	5.208		
17,400.00	7,146.91	17,371.67	7,146.85	256.48	255.78	90.00	-1,314.63	9,845.30	2,640.00	2,128.02	511.99	5.156		
17,430.36	7,147.00	17,402.03	7,146.98	257.24	256.54	90.00	-1,314.55	9,875.66	2,640.00	2,126.49	513.52	5.141 SF		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 4H - Lateral - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)							
0.00	0.00	0.00	3.00	0.00	0.00	-160.18	-56.45	-20.35	60.08						
100.00	100.00	97.00	100.00	0.08	0.08	-160.18	-56.45	-20.35	60.01	59.84	0.17	361.382			
200.00	200.00	197.00	200.00	0.31	0.30	-160.18	-56.45	-20.35	60.01	59.39	0.61	98.151			
300.00	300.00	297.00	300.00	0.53	0.53	-160.18	-56.45	-20.35	60.01	58.95	1.06	56.562			
400.00	400.00	397.00	400.00	0.76	0.75	-160.18	-56.45	-20.35	60.01	58.50	1.51	39.728			
500.00	500.00	497.00	500.00	0.98	0.98	-160.18	-56.45	-20.35	60.01	58.05	1.96	30.616			
600.00	600.00	597.00	600.00	1.21	1.20	-160.18	-56.45	-20.35	60.01	57.60	2.41	24.904			
700.00	700.00	697.00	700.00	1.43	1.43	-160.18	-56.45	-20.35	60.01	57.15	2.86	20.988			
800.00	800.00	797.00	800.00	1.66	1.65	-160.18	-56.45	-20.35	60.01	56.70	3.31	18.137			
900.00	900.00	897.53	900.51	1.88	1.87	-158.64	-55.47	-21.69	59.57	55.81	3.75	15.867			
1,000.00	1,000.00	997.84	1,000.69	2.11	2.09	-153.74	-52.43	-25.87	58.47	54.27	4.20	13.929			
1,046.64	1,046.64	1,044.50	1,047.21	2.21	2.20	-126.92	-50.32	-28.78	58.20	53.79	4.41	13.192 CC, ES			
1,100.00	1,099.98	1,097.81	1,100.27	2.33	2.32	-123.07	-47.35	-32.86	58.57	53.92	4.65	12.583			
1,200.00	1,199.84	1,197.51	1,199.27	2.56	2.57	-116.05	-40.41	-42.40	61.31	56.19	5.13	11.960			
1,300.00	1,299.45	1,297.29	1,298.27	2.79	2.84	-111.96	-33.09	-52.47	66.23	60.62	5.62	11.788			
1,400.00	1,398.70	1,397.07	1,397.27	3.03	3.11	-111.01	-25.76	-62.54	72.62	66.48	6.13	11.837			
1,500.00	1,497.47	1,496.75	1,496.17	3.30	3.40	-112.52	-18.44	-72.59	80.28	73.60	6.68	12.016			
1,600.00	1,595.62	1,596.19	1,594.84	3.61	3.68	-115.76	-11.15	-82.63	89.47	82.21	7.26	12.326			
1,700.00	1,693.06	1,695.29	1,693.16	3.95	3.98	-120.07	-3.87	-92.63	100.62	92.76	7.86	12.799			
1,800.00	1,789.64	1,793.91	1,791.01	4.35	4.27	-124.88	3.37	-102.58	114.22	105.74	8.48	13.474			
1,900.00	1,885.30	1,891.95	1,888.28	4.80	4.56	-129.80	10.56	-112.47	130.64	121.54	9.10	14.360			
2,000.00	1,980.64	1,989.80	1,985.37	5.29	4.86	-134.05	17.74	-122.34	148.56	138.83	9.73	15.274			
2,100.00	2,075.99	2,087.65	2,082.45	5.80	5.16	-137.37	24.93	-132.21	167.11	156.76	10.35	16.146			
2,200.00	2,171.34	2,185.49	2,179.53	6.33	5.46	-140.03	32.11	-142.09	186.10	175.13	10.97	16.964			
2,300.00	2,266.68	2,283.34	2,276.62	6.87	5.76	-142.20	39.29	-151.96	205.41	193.82	11.59	17.726			
2,400.00	2,362.03	2,381.19	2,373.70	7.41	6.06	-144.00	46.47	-161.83	224.95	212.75	12.20	18.432			
2,500.00	2,457.38	2,479.04	2,470.78	7.97	6.37	-145.50	53.65	-171.71	244.68	231.86	12.82	19.084			
2,600.00	2,552.72	2,576.89	2,567.87	8.53	6.67	-146.79	60.83	-181.58	264.54	251.10	13.44	19.687			
2,700.00	2,648.07	2,674.74	2,664.95	9.10	6.98	-147.89	68.02	-191.45	284.51	270.46	14.05	20.245			
2,800.00	2,743.42	2,772.58	2,762.04	9.67	7.28	-148.85	75.20	-201.32	304.57	289.90	14.67	20.761			
2,900.00	2,838.77	2,870.43	2,859.12	10.24	7.59	-149.69	82.38	-211.20	324.70	309.41	15.29	21.240			
3,000.00	2,934.11	2,968.28	2,956.20	10.82	7.90	-150.43	89.56	-221.07	344.89	328.99	15.91	21.684			
3,100.00	3,029.46	3,066.13	3,053.29	11.40	8.20	-151.09	96.74	-230.94	365.13	348.61	16.52	22.097			
3,200.00	3,124.81	3,163.98	3,150.37	11.98	8.51	-151.68	103.93	-240.81	385.41	368.27	17.14	22.482			
3,300.00	3,220.15	3,261.82	3,247.45	12.56	8.82	-152.22	111.11	-250.69	405.73	387.97	17.76	22.842			
3,400.00	3,315.50	3,359.67	3,344.54	13.14	9.13	-152.70	118.29	-260.56	426.08	407.70	18.38	23.178			
3,500.00	3,410.85	3,457.52	3,441.62	13.73	9.44	-153.13	125.47	-270.43	446.45	427.45	19.00	23.494			
3,600.00	3,506.19	3,555.37	3,538.70	14.32	9.75	-153.53	132.65	-280.30	466.85	447.23	19.62	23.789			
3,700.00	3,601.54	3,653.22	3,635.79	14.91	10.06	-153.90	139.84	-290.18	487.27	467.02	20.25	24.067			
3,800.00	3,696.89	3,751.06	3,732.87	15.50	10.37	-154.24	147.02	-300.05	507.70	486.83	20.87	24.329			
3,900.00	3,792.24	3,848.91	3,829.95	16.09	10.68	-154.55	154.20	-309.92	528.15	506.66	21.49	24.576			
4,000.00	3,887.58	3,946.76	3,927.04	16.68	10.99	-154.83	161.38	-319.79	548.62	526.50	22.11	24.809			
4,100.00	3,982.93	4,044.61	4,024.12	17.27	11.30	-155.10	168.56	-329.67	569.09	546.36	22.74	25.030			
4,200.00	4,078.28	4,142.46	4,121.20	17.86	11.61	-155.35	175.74	-339.54	589.58	566.22	23.36	25.239			
4,300.00	4,173.62	4,240.31	4,218.29	18.45	11.92	-155.58	182.93	-349.41	610.08	586.09	23.98	25.437			
4,400.00	4,268.97	4,338.15	4,315.37	19.05	12.23	-155.80	190.11	-359.29	630.58	605.97	24.61	25.625			
4,500.00	4,364.32	4,436.00	4,412.46	19.64	12.54	-156.00	197.29	-369.16	651.09	625.86	25.23	25.804			
4,600.00	4,459.67	4,533.85	4,509.54	20.23	12.85	-156.19	204.47	-379.03	671.62	645.76	25.86	25.974			
4,700.00	4,555.01	4,631.70	4,606.62	20.83	13.16	-156.37	211.65	-388.90	692.14	665.66	26.48	26.136			
4,800.00	4,650.36	4,729.55	4,703.71	21.42	13.47	-156.54	218.84	-398.78	712.68	685.57	27.11	26.291			
4,900.00	4,745.71	4,827.39	4,800.79	22.02	13.78	-156.70	226.02	-408.65	733.22	705.48	27.73	26.439			
5,000.00	4,841.05	4,925.24	4,897.87	22.61	14.10	-156.85	233.20	-418.52	753.76	725.40	28.36	26.580			

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 4H - Lateral - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,936.40	5,023.09	4,994.96	23.21	14.41	-156.99	240.38	-428.39	774.31	745.33	28.98	26.715		
5,200.00	5,031.75	5,120.94	5,092.04	23.80	14.72	-157.13	247.56	-438.27	794.86	765.25	29.61	26.844		
5,300.00	5,127.09	5,218.79	5,189.12	24.40	15.03	-157.25	254.74	-448.14	815.42	785.19	30.24	26.968		
5,400.00	5,222.44	5,316.63	5,286.21	25.00	15.34	-157.38	261.93	-458.01	835.98	805.12	30.86	27.087		
5,500.00	5,317.79	5,414.48	5,383.29	25.59	15.65	-157.49	269.11	-467.88	856.55	825.06	31.49	27.201		
5,600.00	5,413.14	5,512.33	5,480.37	26.19	15.97	-157.60	276.29	-477.76	877.12	845.00	32.12	27.311		
5,700.00	5,508.48	5,610.18	5,577.46	26.78	16.28	-157.71	283.47	-487.63	897.69	864.94	32.74	27.416		
5,800.00	5,604.35	5,708.36	5,674.87	27.24	16.59	-157.91	290.68	-497.54	916.63	883.25	33.38	27.463		
5,900.00	5,701.15	5,807.10	5,772.84	27.65	16.91	-158.01	297.93	-507.50	932.39	898.40	33.99	27.429		
6,000.00	5,798.77	5,906.29	5,871.26	28.02	17.22	-158.00	305.21	-517.51	944.95	910.36	34.59	27.321		
6,100.00	5,897.08	6,005.80	5,969.99	28.35	17.54	-157.89	312.51	-527.55	954.29	919.13	35.16	27.143		
6,200.00	5,995.98	6,094.83	6,058.37	28.63	17.80	-157.73	318.76	-536.15	960.78	925.14	35.64	26.959		
6,300.00	6,095.33	6,177.72	6,140.91	28.87	17.98	-157.62	323.26	-542.33	965.69	929.71	35.99	26.835		
6,400.00	6,195.01	6,260.66	6,223.69	29.06	18.14	-157.54	326.35	-546.58	969.14	932.89	36.26	26.729		
6,500.00	6,294.91	6,343.65	6,306.62	29.20	18.27	-157.51	328.03	-548.89	971.12	934.67	36.45	26.639		
6,600.00	6,394.89	6,431.22	6,394.18	29.30	18.39	89.00	328.37	-548.71	971.64	935.03	36.61	26.543		
6,700.00	6,494.28	6,528.86	6,491.15	29.34	18.45	88.96	328.40	-537.94	971.65	934.94	36.71	26.467		
6,800.00	6,591.26	6,626.44	6,585.69	29.31	18.42	88.94	328.46	-514.11	971.66	935.01	36.65	26.511		
6,900.00	6,683.95	6,723.98	6,676.10	29.23	18.31	88.94	328.55	-477.68	971.66	935.19	36.47	26.640		
7,000.00	6,770.55	6,821.54	6,760.73	29.09	18.16	88.96	328.66	-429.30	971.65	935.40	36.25	26.801		
7,100.00	6,849.36	6,919.17	6,838.06	28.92	17.99	88.99	328.81	-369.84	971.64	935.55	36.10	26.918		
7,200.00	6,918.86	7,016.90	6,906.66	28.73	17.84	89.05	328.98	-300.33	971.63	935.50	36.13	26.896		
7,300.00	6,977.70	7,114.77	6,965.24	28.54	17.77	89.13	329.17	-222.03	971.61	935.13	36.48	26.634		
7,400.00	7,027.98	7,213.97	7,015.61	28.35	17.88	89.16	329.38	-136.58	971.60	934.35	37.25	26.086		
7,500.00	7,070.01	7,312.13	7,058.34	28.19	18.32	89.26	329.59	-48.29	971.57	933.05	38.52	25.222		
7,600.00	7,099.01	7,410.52	7,088.66	28.06	19.13	89.37	329.83	45.23	971.55	931.24	40.31	24.103		
7,700.00	7,114.42	7,509.18	7,105.91	27.97	20.27	89.50	330.07	142.29	971.53	928.95	42.57	22.820		
7,800.00	7,117.13	7,608.38	7,110.10	28.00	21.64	89.59	330.31	241.34	971.51	926.28	45.23	21.480		
7,900.00	7,117.44	7,708.38	7,110.49	28.26	23.21	89.59	330.56	341.34	971.51	923.27	48.24	20.139		
8,000.00	7,117.75	7,808.38	7,110.88	28.94	24.93	89.59	330.81	441.34	971.51	919.93	51.58	18.836		
8,100.00	7,118.06	7,908.38	7,111.27	30.16	26.79	89.60	331.06	541.33	971.50	916.33	55.17	17.608		
8,200.00	7,118.37	8,008.38	7,111.66	31.76	28.74	89.60	331.31	641.33	971.50	912.51	58.99	16.469		
8,300.00	7,118.68	8,108.38	7,112.05	33.58	30.77	89.61	331.55	741.33	971.49	908.52	62.98	15.426		
8,400.00	7,118.99	8,208.38	7,112.43	35.53	32.87	89.61	331.80	841.33	971.49	904.38	67.11	14.476		
8,500.00	7,119.30	8,308.38	7,112.82	37.56	35.03	89.62	332.05	941.33	971.49	900.12	71.36	13.613		
8,600.00	7,119.61	8,408.38	7,113.21	39.66	37.23	89.62	332.30	1,041.33	971.48	895.77	75.72	12.831		
8,700.00	7,119.92	8,508.38	7,113.60	41.80	39.47	89.63	332.55	1,141.33	971.48	891.33	80.15	12.121		
8,800.00	7,120.23	8,608.38	7,113.99	43.99	41.75	89.63	332.80	1,241.33	971.48	886.82	84.66	11.476		
8,900.00	7,120.54	8,708.38	7,114.38	46.22	44.05	89.64	333.05	1,341.33	971.47	882.25	89.22	10.889		
9,000.00	7,120.85	8,808.38	7,114.77	48.47	46.37	89.64	333.30	1,441.32	971.47	877.63	93.83	10.353		
9,100.00	7,121.16	8,908.38	7,115.16	50.75	48.71	89.65	333.54	1,541.32	971.46	872.97	98.49	9.863		
9,200.00	7,121.47	9,008.38	7,115.55	53.05	51.07	89.65	333.79	1,641.32	971.46	868.27	103.19	9.415		
9,300.00	7,121.78	9,108.38	7,115.94	55.37	53.45	89.66	334.04	1,741.32	971.46	863.54	107.91	9.002		
9,400.00	7,122.09	9,208.38	7,116.32	57.71	55.84	89.66	334.29	1,841.32	971.45	858.78	112.67	8.622		
9,500.00	7,122.40	9,308.38	7,116.71	60.06	58.24	89.66	334.54	1,941.32	971.45	854.00	117.45	8.271		
9,600.00	7,122.71	9,408.38	7,117.10	62.43	60.65	89.67	334.79	2,041.32	971.45	849.19	122.26	7.946		
9,700.00	7,123.02	9,508.38	7,117.49	64.80	63.07	89.67	335.04	2,141.32	971.44	844.36	127.08	7.644		
9,800.00	7,123.33	9,608.38	7,117.88	67.19	65.50	89.68	335.28	2,241.32	971.44	839.52	131.92	7.364		
9,900.00	7,123.65	9,708.38	7,118.27	69.59	67.93	89.68	335.53	2,341.31	971.44	834.66	136.78	7.102		
10,000.00	7,123.96	9,808.38	7,118.66	71.99	70.37	89.69	335.78	2,441.31	971.43	829.79	141.65	6.858		
10,100.00	7,124.27	9,908.37	7,119.05	74.40	72.82	89.69	336.03	2,541.31	971.43	824.90	146.53	6.630		
10,200.00	7,124.58	10,008.37	7,119.44	76.82	75.27	89.70	336.28	2,641.31	971.43	820.00	151.42	6.415		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 4H - Lateral - Plan #1													Offset Site Error:	0.00 usft	
Survey Program: 0-SDI MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300.00	7,124.89	10,108.37	7,119.83	79.25	77.73	89.70	336.53	2,741.31	971.42	815.09	156.33	6.214			
10,400.00	7,125.20	10,208.37	7,120.21	81.68	80.19	89.71	336.78	2,841.31	971.42	810.18	161.24	6.025			
10,500.00	7,125.51	10,308.37	7,120.60	84.12	82.66	89.71	337.02	2,941.31	971.41	805.25	166.17	5.846			
10,600.00	7,125.82	10,408.37	7,120.99	86.56	85.13	89.72	337.27	3,041.31	971.41	800.32	171.10	5.678			
10,700.00	7,126.13	10,508.37	7,121.38	89.01	87.60	89.72	337.52	3,141.31	971.41	795.37	176.03	5.518			
10,800.00	7,126.44	10,608.37	7,121.77	91.46	90.07	89.72	337.77	3,241.31	971.40	790.43	180.98	5.368			
10,900.00	7,126.75	10,708.37	7,122.16	93.91	92.55	89.73	338.02	3,341.30	971.40	785.47	185.93	5.225			
11,000.00	7,127.06	10,808.37	7,122.55	96.37	95.03	89.73	338.27	3,441.30	971.40	780.51	190.88	5.089			
11,100.00	7,127.37	10,908.37	7,122.94	98.83	97.52	89.74	338.52	3,541.30	971.39	775.55	195.84	4.960			
11,200.00	7,127.68	11,008.37	7,123.33	101.30	100.00	89.74	338.77	3,641.30	971.39	770.58	200.81	4.837			
11,300.00	7,127.99	11,108.37	7,123.72	103.77	102.49	89.75	339.01	3,741.30	971.39	765.61	205.78	4.721			
11,400.00	7,128.30	11,208.37	7,124.10	106.24	104.98	89.75	339.26	3,841.30	971.38	760.63	210.75	4.609			
11,500.00	7,128.61	11,308.37	7,124.49	108.71	107.47	89.76	339.51	3,941.30	971.38	755.65	215.73	4.503			
11,600.00	7,128.92	11,408.37	7,124.88	111.19	109.96	89.76	339.76	4,041.30	971.38	750.66	220.71	4.401			
11,700.00	7,129.23	11,508.37	7,125.27	113.66	112.46	89.77	340.01	4,141.30	971.37	745.68	225.70	4.304			
11,800.00	7,129.54	11,608.37	7,125.66	116.14	114.95	89.77	340.26	4,241.29	971.37	740.69	230.68	4.211			
11,900.00	7,129.85	11,708.37	7,126.05	118.62	117.45	89.78	340.51	4,341.29	971.37	735.69	235.67	4.122			
12,000.00	7,130.16	11,808.37	7,126.44	121.11	119.95	89.78	340.75	4,441.29	971.36	730.69	240.67	4.036			
12,100.00	7,130.47	11,908.37	7,126.83	123.59	122.45	89.79	341.00	4,541.29	971.36	725.69	245.66	3.954			
12,200.00	7,130.78	12,008.37	7,127.22	126.08	124.95	89.79	341.25	4,641.29	971.36	720.69	250.66	3.875			
12,300.00	7,131.09	12,108.37	7,127.61	128.57	127.45	89.79	341.50	4,741.29	971.35	715.69	255.66	3.799			
12,400.00	7,131.40	12,208.37	7,127.99	131.06	129.96	89.80	341.75	4,841.29	971.35	710.68	260.67	3.726			
12,500.00	7,131.71	12,308.37	7,128.38	133.55	132.46	89.80	342.00	4,941.29	971.35	705.67	265.67	3.656			
12,600.00	7,132.02	12,408.37	7,128.77	136.04	134.96	89.81	342.25	5,041.29	971.34	700.66	270.68	3.589			
12,700.00	7,132.33	12,508.37	7,129.16	138.54	137.47	89.81	342.50	5,141.28	971.34	695.65	275.69	3.523			
12,800.00	7,132.64	12,608.37	7,129.55	141.03	139.98	89.82	342.74	5,241.28	971.34	690.64	280.70	3.460			
12,900.00	7,132.95	12,708.37	7,129.94	143.53	142.48	89.82	342.99	5,341.28	971.33	685.62	285.71	3.400			
13,000.00	7,133.26	12,808.37	7,130.33	146.02	144.99	89.83	343.24	5,441.28	971.33	680.61	290.72	3.341			
13,100.00	7,133.57	12,908.37	7,130.72	148.52	147.50	89.83	343.49	5,541.28	971.33	675.59	295.74	3.284			
13,200.00	7,133.88	13,008.37	7,131.11	151.02	150.01	89.84	343.74	5,641.28	971.32	670.57	300.75	3.230			
13,300.00	7,134.19	13,108.37	7,131.50	153.52	152.52	89.84	343.99	5,741.28	971.32	665.55	305.77	3.177			
13,400.00	7,134.50	13,208.37	7,131.88	156.02	155.03	89.85	344.24	5,841.28	971.32	660.53	310.79	3.125			
13,500.00	7,134.81	13,308.37	7,132.27	158.52	157.54	89.85	344.48	5,941.28	971.31	655.50	315.81	3.076			
13,600.00	7,135.12	13,408.37	7,132.66	161.03	160.05	89.85	344.73	6,041.27	971.31	650.48	320.83	3.027			
13,700.00	7,135.43	13,508.37	7,133.05	163.53	162.56	89.86	344.98	6,141.27	971.31	645.45	325.85	2.981			
13,800.00	7,135.74	13,608.37	7,133.44	166.03	165.08	89.86	345.23	6,241.27	971.30	640.43	330.88	2.936			
13,900.00	7,136.05	13,708.37	7,133.83	168.54	167.59	89.87	345.48	6,341.27	971.30	635.40	335.90	2.892			
14,000.00	7,136.36	13,808.37	7,134.22	171.04	170.10	89.87	345.73	6,441.27	971.30	630.37	340.92	2.849			
14,100.00	7,136.67	13,908.37	7,134.61	173.55	172.62	89.88	345.98	6,541.27	971.29	625.34	345.95	2.808			
14,200.00	7,136.98	14,008.37	7,135.00	176.05	175.13	89.88	346.23	6,641.27	971.29	620.31	350.98	2.767			
14,300.00	7,137.29	14,108.37	7,135.39	178.56	177.64	89.89	346.47	6,741.27	971.29	615.28	356.01	2.728			
14,400.00	7,137.60	14,208.37	7,135.77	181.07	180.16	89.89	346.72	6,841.27	971.28	610.25	361.03	2.690			
14,500.00	7,137.91	14,308.37	7,136.16	183.58	182.68	89.90	346.97	6,941.26	971.28	605.22	366.06	2.653			
14,600.00	7,138.22	14,408.37	7,136.55	186.09	185.19	89.90	347.22	7,041.26	971.28	600.18	371.09	2.617			
14,700.00	7,138.53	14,508.37	7,136.94	188.59	187.71	89.91	347.47	7,141.26	971.27	595.15	376.12	2.582			
14,800.00	7,138.84	14,608.37	7,137.33	191.10	190.22	89.91	347.72	7,241.26	971.27	590.11	381.16	2.548			
14,900.00	7,139.15	14,708.37	7,137.72	193.61	192.74	89.92	347.97	7,341.26	971.27	585.08	386.19	2.515			
15,000.00	7,139.46	14,808.37	7,138.11	196.13	195.26	89.92	348.21	7,441.26	971.26	580.04	391.22	2.483			
15,100.00	7,139.77	14,908.37	7,138.50	198.64	197.77	89.92	348.46	7,541.26	971.26	575.01	396.25	2.451			
15,200.00	7,140.08	15,008.37	7,138.89	201.15	200.29	89.93	348.71	7,641.26	971.26	569.97	401.29	2.420			
15,300.00	7,140.39	15,108.37	7,139.27	203.66	202.81	89.93	348.96	7,741.26	971.25	564.93	406.32	2.390			
15,400.00	7,140.70	15,208.37	7,139.66	206.17	205.33	89.94	349.21	7,841.25	971.25	559.89	411.36	2.361			



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 4H - Lateral - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,500.00	7,141.01	15,308.37	7,140.05	208.68	207.84	89.94	349.46	7,941.25	971.25	554.86	416.39	2.333		
15,600.00	7,141.32	15,408.37	7,140.44	211.20	210.36	89.95	349.71	8,041.25	971.24	549.82	421.43	2.305		
15,700.00	7,141.63	15,508.37	7,140.83	213.71	212.88	89.95	349.95	8,141.25	971.24	544.78	426.46	2.277		
15,800.00	7,141.94	15,608.37	7,141.22	216.22	215.40	89.96	350.20	8,241.25	971.24	539.74	431.50	2.251		
15,900.00	7,142.25	15,708.37	7,141.61	218.74	217.92	89.96	350.45	8,341.25	971.23	534.70	436.54	2.225		
16,000.00	7,142.56	15,808.37	7,142.00	221.25	220.44	89.97	350.70	8,441.25	971.23	529.66	441.58	2.199		
16,100.00	7,142.87	15,908.37	7,142.39	223.77	222.96	89.97	350.95	8,541.25	971.23	524.61	446.61	2.175		
16,200.00	7,143.18	16,008.37	7,142.78	226.28	225.48	89.98	351.20	8,641.25	971.22	519.57	451.65	2.150		
16,300.00	7,143.49	16,108.37	7,143.16	228.80	228.00	89.98	351.45	8,741.24	971.22	514.53	456.69	2.127		
16,400.00	7,143.80	16,208.37	7,143.55	231.31	230.52	89.99	351.70	8,841.24	971.22	509.49	461.73	2.103		
16,500.00	7,144.11	16,308.37	7,143.94	233.83	233.04	89.99	351.94	8,941.24	971.21	504.44	466.77	2.081		
16,600.00	7,144.42	16,408.37	7,144.33	236.34	235.56	89.99	352.19	9,041.24	971.21	499.40	471.81	2.058		
16,700.00	7,144.73	16,508.37	7,144.72	238.86	238.08	90.00	352.44	9,141.24	971.21	494.36	476.85	2.037		
16,758.72	7,144.92	16,567.09	7,144.95	240.34	239.56	90.00	352.59	9,199.96	971.21	491.16	480.04	2.023		
16,800.00	7,145.05	16,580.17	7,145.00	241.37	239.89	90.00	352.62	9,213.04	971.61	490.27	481.34	2.019 SF		
16,900.00	7,145.36	16,580.17	7,145.00	243.89	239.89	90.00	352.62	9,213.04	979.63	495.20	484.43	2.022		
17,000.00	7,145.67	16,580.17	7,145.00	246.41	239.89	90.00	352.62	9,213.04	997.65	510.13	487.52	2.046		
17,100.00	7,145.98	16,580.17	7,145.00	248.93	239.89	90.00	352.62	9,213.04	1,025.15	534.55	490.61	2.090		
17,200.00	7,146.29	16,580.17	7,145.00	251.44	239.89	90.00	352.62	9,213.04	1,061.40	567.71	493.69	2.150		
17,300.00	7,146.60	16,580.17	7,145.00	253.96	239.89	90.00	352.62	9,213.04	1,105.53	608.75	496.78	2.225		
17,400.00	7,146.91	16,580.17	7,145.00	256.48	239.89	90.00	352.62	9,213.04	1,156.65	656.78	499.87	2.314		
17,430.36	7,147.00	16,580.17	7,145.00	257.24	239.89	90.00	352.62	9,213.04	1,173.41	672.61	500.81	2.343		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 5H - OH - Plan #1													Offset Site Error:	0.00 usft				
Survey Program:		O-SDI MWD															Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis				Distance						Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
0.00	0.00	0.00	3.00	0.00	0.00	-160.18	-75.26	-27.12	80.05									
100.00	100.00	97.00	100.00	0.08	0.08	-160.18	-75.26	-27.12	80.00	79.83	0.17	481.777						
200.00	200.00	197.00	200.00	0.31	0.30	-160.18	-75.26	-27.12	80.00	79.39	0.61	130.850						
300.00	300.00	297.00	300.00	0.53	0.53	-160.18	-75.26	-27.12	80.00	78.94	1.06	75.405						
400.00	400.00	397.00	400.00	0.76	0.75	-160.18	-75.26	-27.12	80.00	78.49	1.51	52.963						
500.00	500.00	497.00	500.00	0.98	0.98	-160.18	-75.26	-27.12	80.00	78.04	1.96	40.816						
600.00	600.00	597.00	600.00	1.21	1.20	-160.18	-75.26	-27.12	80.00	77.59	2.41	33.201						
700.00	700.00	697.00	700.00	1.43	1.43	-160.18	-75.26	-27.12	80.00	77.14	2.86	27.981						
800.00	800.00	797.00	800.00	1.66	1.65	-160.18	-75.26	-27.12	80.00	76.69	3.31	24.179						
900.00	900.00	897.00	900.00	1.88	1.88	-160.18	-75.26	-27.12	80.00	76.24	3.76	21.287						
1,000.00	1,000.00	997.00	1,000.00	2.11	2.10	-160.18	-75.26	-27.12	80.00	75.79	4.21	19.012 CC, ES						
1,100.00	1,099.98	1,095.02	1,098.01	2.33	2.30	-136.59	-75.96	-28.53	82.43	77.79	4.63	17.788						
1,200.00	1,199.84	1,192.63	1,195.48	2.56	2.49	-136.57	-78.15	-32.91	89.85	84.80	5.05	17.799						
1,300.00	1,299.45	1,289.52	1,292.02	2.79	2.69	-136.50	-81.78	-40.20	102.24	96.76	5.47	18.679						
1,400.00	1,398.70	1,387.48	1,389.42	3.03	2.91	-136.70	-86.51	-49.69	118.86	112.94	5.92	20.086						
1,500.00	1,497.47	1,485.57	1,486.91	3.30	3.15	-137.73	-91.29	-59.29	138.09	131.71	6.38	21.649						
1,600.00	1,595.62	1,583.04	1,583.80	3.61	3.39	-139.26	-96.04	-68.82	159.96	153.10	6.86	23.321						
1,700.00	1,693.06	1,679.76	1,679.94	3.95	3.64	-141.03	-100.76	-78.28	184.58	177.22	7.36	25.089						
1,800.00	1,789.64	1,775.63	1,775.23	4.35	3.89	-142.86	-105.43	-87.66	212.06	204.19	7.87	26.943						
1,900.00	1,885.30	1,870.55	1,869.59	4.80	4.15	-144.74	-110.06	-96.94	242.43	234.02	8.40	28.850						
2,000.00	1,980.64	1,965.16	1,963.63	5.29	4.41	-146.55	-114.67	-106.19	273.87	264.90	8.96	30.551						
2,100.00	2,075.99	2,059.77	2,057.67	5.80	4.67	-147.99	-119.29	-115.45	305.51	295.97	9.53	32.045						
2,200.00	2,171.34	2,154.38	2,151.72	6.33	4.94	-149.16	-123.90	-124.70	337.29	327.18	10.11	33.363						
2,300.00	2,266.68	2,248.99	2,245.76	6.87	5.21	-150.13	-128.51	-133.95	369.17	358.48	10.69	34.530						
2,400.00	2,362.03	2,343.60	2,339.81	7.41	5.48	-150.95	-133.12	-143.21	401.14	389.86	11.28	35.569						
2,500.00	2,457.38	2,438.21	2,433.85	7.97	5.75	-151.64	-137.74	-152.46	433.17	421.30	11.87	36.498						
2,600.00	2,552.72	2,532.82	2,527.89	8.53	6.02	-152.24	-142.35	-161.71	465.24	452.78	12.46	37.332						
2,700.00	2,648.07	2,627.43	2,621.94	9.10	6.30	-152.77	-146.96	-170.97	497.36	484.30	13.06	38.085						
2,800.00	2,743.42	2,722.04	2,715.98	9.67	6.58	-153.23	-151.57	-180.22	529.51	515.85	13.66	38.767						
2,900.00	2,838.77	2,816.65	2,810.03	10.24	6.85	-153.63	-156.19	-189.47	561.69	547.43	14.26	39.387						
3,000.00	2,934.11	2,911.26	2,904.07	10.82	7.13	-154.00	-160.80	-198.73	593.89	579.02	14.86	39.953						
3,100.00	3,029.46	3,005.88	2,998.11	11.40	7.41	-154.32	-165.41	-207.98	626.11	610.64	15.47	40.471						
3,200.00	3,124.81	3,100.49	3,092.16	11.98	7.69	-154.62	-170.02	-217.23	658.34	642.26	16.08	40.946						
3,300.00	3,220.15	3,195.10	3,186.20	12.56	7.97	-154.88	-174.64	-226.49	690.59	673.90	16.69	41.385						
3,400.00	3,315.50	3,289.71	3,280.25	13.14	8.25	-155.12	-179.25	-235.74	722.85	705.56	17.30	41.790						
3,500.00	3,410.85	3,384.32	3,374.29	13.73	8.54	-155.35	-183.86	-244.99	755.13	737.22	17.91	42.165						
3,600.00	3,506.19	3,478.93	3,468.33	14.32	8.82	-155.55	-188.47	-254.25	787.41	768.89	18.52	42.514						
3,700.00	3,601.54	3,573.54	3,562.38	14.91	9.10	-155.74	-193.09	-263.50	819.70	800.56	19.13	42.839						
3,800.00	3,696.89	3,668.15	3,656.42	15.50	9.38	-155.91	-197.70	-272.75	851.99	832.24	19.75	43.141						
3,900.00	3,792.24	3,762.76	3,750.47	16.09	9.67	-156.07	-202.31	-282.01	884.30	863.93	20.36	43.425						
4,000.00	3,887.58	3,857.37	3,844.51	16.68	9.95	-156.22	-206.92	-291.26	916.61	895.63	20.98	43.690						
4,100.00	3,982.93	3,951.98	3,938.55	17.27	10.24	-156.36	-211.53	-300.51	948.92	927.32	21.60	43.939						
4,200.00	4,078.28	4,046.59	4,032.60	17.86	10.52	-156.49	-216.15	-309.77	981.24	959.03	22.21	44.174						
4,300.00	4,173.62	4,141.20	4,126.64	18.45	10.81	-156.61	-220.76	-319.02	1,013.56	990.73	22.83	44.394						
4,400.00	4,268.97	4,235.81	4,220.69	19.05	11.09	-156.73	-225.37	-328.28	1,045.89	1,022.44	23.45	44.603						
4,500.00	4,364.32	4,330.42	4,314.73	19.64	11.38	-156.83	-229.98	-337.53	1,078.22	1,054.15	24.07	44.799						
4,600.00	4,459.67	4,425.03	4,408.77	20.23	11.66	-156.93	-234.60	-346.78	1,110.56	1,085.87	24.69	44.986						
4,700.00	4,555.01	4,519.64	4,502.82	20.83	11.95	-157.03	-239.21	-356.04	1,142.89	1,117.59	25.31	45.162						
4,800.00	4,650.36	4,614.26	4,596.86	21.42	12.23	-157.12	-243.82	-365.29	1,175.23	1,149.31	25.93	45.330						
4,900.00	4,745.71	4,708.87	4,690.91	22.02	12.52	-157.21	-248.43	-374.54	1,207.57	1,181.03	26.55	45.489						
5,000.00	4,841.05	4,803.48	4,784.95	22.61	12.80	-157.29	-253.05	-383.80	1,239.92	1,212.75	27.17	45.640						
5,100.00	4,936.40	4,898.09	4,878.99	23.21	13.09	-157.36	-257.66	-393.05	1,272.27	1,244.48	27.79	45.784						

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 5H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,031.75	4,992.70	4,973.04	23.80	13.38	-157.44	-262.27	-402.30	1,304.61	1,276.20	28.41	45.921	
5,300.00	5,127.09	5,087.31	5,067.08	24.40	13.66	-157.51	-266.88	-411.56	1,336.96	1,307.93	29.03	46.053	
5,400.00	5,222.44	5,181.92	5,161.12	25.00	13.95	-157.57	-271.50	-420.81	1,369.32	1,339.66	29.65	46.178	
5,500.00	5,317.79	5,276.53	5,255.17	25.59	14.24	-157.63	-276.11	-430.06	1,401.67	1,371.39	30.28	46.297	
5,600.00	5,413.14	5,371.14	5,349.21	26.19	14.52	-157.70	-280.72	-439.32	1,434.02	1,403.13	30.90	46.412	
5,700.00	5,508.48	5,465.75	5,443.26	26.78	14.81	-157.76	-285.33	-448.57	1,466.38	1,434.86	31.52	46.520	
5,800.00	5,604.35	5,560.89	5,537.83	27.24	15.10	-158.03	-289.97	-457.87	1,497.16	1,464.97	32.19	46.516	
5,900.00	5,701.15	5,656.97	5,633.33	27.65	15.39	-158.22	-294.66	-467.27	1,524.84	1,492.02	32.82	46.458	
6,000.00	5,798.77	5,753.89	5,729.67	28.02	15.69	-158.33	-299.38	-476.75	1,549.40	1,515.97	33.43	46.354	
6,100.00	5,897.08	5,851.51	5,826.71	28.35	15.98	-158.37	-304.14	-486.30	1,570.80	1,536.81	33.99	46.208	
6,200.00	5,995.98	5,949.73	5,924.34	28.63	16.28	-158.35	-308.93	-495.91	1,589.03	1,554.51	34.53	46.023	
6,300.00	6,095.33	6,048.42	6,022.44	28.87	16.58	-158.25	-313.74	-505.56	1,604.08	1,569.06	35.02	45.802	
6,400.00	6,195.01	6,147.47	6,120.89	29.06	16.88	-158.09	-318.57	-515.25	1,615.95	1,580.47	35.48	45.548	
6,500.00	6,294.91	6,246.74	6,219.57	29.20	17.18	-157.87	-323.41	-524.96	1,624.62	1,588.73	35.89	45.261	
6,600.00	6,394.89	6,374.55	6,346.84	29.30	17.48	88.94	-328.59	-535.34	1,629.44	1,593.15	36.29	44.900	
6,700.00	6,494.28	6,505.74	6,477.88	29.34	17.71	89.45	-331.27	-540.73	1,631.29	1,594.61	36.68	44.474	
6,800.00	6,591.26	6,619.85	6,591.95	29.31	17.87	90.35	-331.61	-539.79	1,631.52	1,594.52	37.00	44.095	
6,900.00	6,683.95	6,719.98	6,691.06	29.23	17.92	91.18	-331.57	-526.11	1,631.86	1,594.72	37.14	43.937	
7,000.00	6,770.55	6,823.81	6,790.77	29.09	17.87	92.00	-331.50	-497.48	1,632.54	1,595.38	37.16	43.928	
7,100.00	6,849.36	6,931.67	6,888.84	28.92	17.75	92.80	-331.39	-452.82	1,633.55	1,596.43	37.12	44.007	
7,200.00	6,918.86	7,043.82	6,982.49	28.73	17.60	93.56	-331.24	-391.34	1,634.79	1,597.69	37.10	44.061	
7,300.00	6,977.70	7,160.37	7,068.42	28.54	17.48	94.26	-331.05	-312.78	1,636.19	1,598.93	37.25	43.919	
7,400.00	7,027.98	7,281.69	7,143.10	28.35	17.49	94.81	-330.82	-217.37	1,637.28	1,599.52	37.76	43.359	
7,500.00	7,070.01	7,390.78	7,198.56	28.19	17.74	95.11	-330.59	-123.44	1,638.13	1,599.40	38.73	42.294	
7,600.00	7,099.01	7,517.17	7,250.33	28.06	18.49	95.57	-330.31	-8.32	1,639.34	1,598.98	40.36	40.622	
7,700.00	7,114.42	7,646.61	7,281.57	27.97	19.78	95.90	-330.00	117.12	1,640.23	1,597.61	42.62	38.482	
7,800.00	7,117.13	7,772.01	7,290.09	28.00	21.45	96.05	-329.69	242.09	1,640.63	1,595.20	45.42	36.119	
7,900.00	7,117.44	7,872.01	7,290.59	28.26	23.01	96.06	-329.44	342.08	1,640.64	1,592.21	48.43	33.875	
8,000.00	7,117.75	7,972.01	7,291.09	28.94	24.71	96.06	-329.19	442.08	1,640.66	1,588.92	51.74	31.707	
8,100.00	7,118.06	8,072.01	7,291.59	30.16	26.56	96.07	-328.94	542.08	1,640.68	1,585.36	55.32	29.658	
8,200.00	7,118.37	8,172.01	7,292.10	31.76	28.50	96.08	-328.69	642.08	1,640.70	1,581.59	59.11	27.758	
8,300.00	7,118.68	8,272.01	7,292.60	33.58	30.54	96.08	-328.44	742.08	1,640.71	1,577.64	63.07	26.014	
8,400.00	7,118.99	8,372.01	7,293.10	35.53	32.64	96.09	-328.20	842.07	1,640.73	1,573.55	67.18	24.424	
8,500.00	7,119.30	8,472.01	7,293.60	37.56	34.79	96.10	-327.95	942.07	1,640.75	1,569.34	71.40	22.979	
8,600.00	7,119.61	8,572.01	7,294.10	39.66	37.00	96.10	-327.70	1,042.07	1,640.76	1,565.04	75.73	21.667	
8,700.00	7,119.92	8,672.01	7,294.60	41.80	39.24	96.11	-327.45	1,142.07	1,640.78	1,560.65	80.13	20.476	
8,800.00	7,120.23	8,772.01	7,295.10	43.99	41.52	96.12	-327.20	1,242.07	1,640.80	1,556.19	84.61	19.392	
8,900.00	7,120.54	8,872.01	7,295.60	46.22	43.82	96.12	-326.95	1,342.07	1,640.82	1,551.67	89.15	18.406	
9,000.00	7,120.85	8,972.01	7,296.10	48.47	46.15	96.13	-326.70	1,442.06	1,640.83	1,547.10	93.73	17.506	
9,100.00	7,121.16	9,072.01	7,296.60	50.75	48.49	96.14	-326.45	1,542.06	1,640.85	1,542.49	98.36	16.682	
9,200.00	7,121.47	9,172.01	7,297.10	53.05	50.86	96.14	-326.21	1,642.06	1,640.87	1,537.84	103.03	15.926	
9,300.00	7,121.78	9,272.01	7,297.60	55.37	53.23	96.15	-325.96	1,742.06	1,640.89	1,533.16	107.73	15.232	
9,400.00	7,122.09	9,372.01	7,298.10	57.71	55.63	96.16	-325.71	1,842.06	1,640.90	1,528.45	112.46	14.592	
9,500.00	7,122.40	9,472.01	7,298.60	60.06	58.03	96.16	-325.46	1,942.06	1,640.92	1,523.71	117.21	14.000	
9,600.00	7,122.71	9,572.01	7,299.10	62.43	60.44	96.17	-325.21	2,042.05	1,640.94	1,518.95	121.98	13.452	
9,700.00	7,123.02	9,672.01	7,299.60	64.80	62.86	96.18	-324.96	2,142.05	1,640.95	1,514.18	126.78	12.943	
9,800.00	7,123.33	9,772.01	7,300.10	67.19	65.29	96.18	-324.71	2,242.05	1,640.97	1,509.38	131.59	12.470	
9,900.00	7,123.65	9,872.01	7,300.60	69.59	67.73	96.19	-324.47	2,342.05	1,640.99	1,504.57	136.42	12.029	
10,000.00	7,123.96	9,972.01	7,301.10	71.99	70.18	96.20	-324.22	2,442.05	1,641.01	1,499.75	141.26	11.617	
10,100.00	7,124.27	10,072.01	7,301.60	74.40	72.62	96.20	-323.97	2,542.05	1,641.02	1,494.91	146.11	11.231	
10,200.00	7,124.58	10,172.01	7,302.10	76.82	75.08	96.21	-323.72	2,642.04	1,641.04	1,490.06	150.98	10.869	
10,300.00	7,124.89	10,272.01	7,302.60	79.25	77.54	96.22	-323.47	2,742.04	1,641.06	1,485.20	155.86	10.529	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 5H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,400.00	7,125.20	10,372.01	7,303.11	81.68	80.00	96.22	-323.22	2,842.04	1,641.08	1,480.34	160.74	10.209			
10,500.00	7,125.51	10,472.01	7,303.61	84.12	82.47	96.23	-322.97	2,942.04	1,641.09	1,475.46	165.63	9.908			
10,600.00	7,125.82	10,572.01	7,304.11	86.56	84.94	96.24	-322.73	3,042.04	1,641.11	1,470.58	170.54	9.623			
10,700.00	7,126.13	10,672.01	7,304.61	89.01	87.41	96.24	-322.48	3,142.03	1,641.13	1,465.69	175.44	9.354			
10,800.00	7,126.44	10,772.01	7,305.11	91.46	89.89	96.25	-322.23	3,242.03	1,641.15	1,460.79	180.36	9.099			
10,900.00	7,126.75	10,872.01	7,305.61	93.91	92.37	96.26	-321.98	3,342.03	1,641.17	1,455.89	185.28	8.858			
11,000.00	7,127.06	10,972.01	7,306.11	96.37	94.85	96.26	-321.73	3,442.03	1,641.18	1,450.98	190.20	8.629			
11,100.00	7,127.37	11,072.01	7,306.61	98.83	97.34	96.27	-321.48	3,542.03	1,641.20	1,446.06	195.14	8.411			
11,200.00	7,127.68	11,172.01	7,307.11	101.30	99.83	96.28	-321.23	3,642.03	1,641.22	1,441.15	200.07	8.203			
11,300.00	7,127.99	11,272.01	7,307.61	103.77	102.31	96.28	-320.99	3,742.02	1,641.24	1,436.22	205.01	8.006			
11,400.00	7,128.30	11,372.01	7,308.11	106.24	104.80	96.29	-320.74	3,842.02	1,641.25	1,431.30	209.96	7.817			
11,500.00	7,128.61	11,472.01	7,308.61	108.71	107.30	96.30	-320.49	3,942.02	1,641.27	1,426.37	214.90	7.637			
11,600.00	7,128.92	11,572.01	7,309.11	111.19	109.79	96.30	-320.24	4,042.02	1,641.29	1,421.43	219.86	7.465			
11,700.00	7,129.23	11,672.01	7,309.61	113.66	112.29	96.31	-319.99	4,142.02	1,641.31	1,416.50	224.81	7.301			
11,800.00	7,129.54	11,772.01	7,310.11	116.14	114.78	96.32	-319.74	4,242.02	1,641.33	1,411.56	229.77	7.143			
11,900.00	7,129.85	11,872.01	7,310.61	118.62	117.28	96.32	-319.49	4,342.01	1,641.34	1,406.62	234.73	6.993			
12,000.00	7,130.16	11,972.01	7,311.11	121.11	119.78	96.33	-319.25	4,442.01	1,641.36	1,401.67	239.69	6.848			
12,100.00	7,130.47	12,072.01	7,311.61	123.59	122.28	96.34	-319.00	4,542.01	1,641.38	1,396.72	244.66	6.709			
12,200.00	7,130.78	12,172.01	7,312.11	126.08	124.78	96.34	-318.75	4,642.01	1,641.40	1,391.77	249.62	6.575			
12,300.00	7,131.09	12,272.01	7,312.61	128.57	127.29	96.35	-318.50	4,742.01	1,641.42	1,386.82	254.59	6.447			
12,400.00	7,131.40	12,372.01	7,313.11	131.06	129.79	96.36	-318.25	4,842.01	1,641.43	1,381.87	259.57	6.324			
12,500.00	7,131.71	12,472.01	7,313.61	133.55	132.30	96.36	-318.00	4,942.00	1,641.45	1,376.91	264.54	6.205			
12,600.00	7,132.02	12,572.01	7,314.12	136.04	134.80	96.37	-317.75	5,042.00	1,641.47	1,371.95	269.52	6.090			
12,700.00	7,132.33	12,672.01	7,314.62	138.54	137.31	96.38	-317.51	5,142.00	1,641.49	1,366.99	274.49	5.980			
12,800.00	7,132.64	12,772.01	7,315.12	141.03	139.81	96.38	-317.26	5,242.00	1,641.51	1,362.03	279.47	5.874			
12,900.00	7,132.95	12,872.01	7,315.62	143.53	142.32	96.39	-317.01	5,342.00	1,641.52	1,357.07	284.45	5.771			
13,000.00	7,133.26	12,972.01	7,316.12	146.02	144.83	96.40	-316.76	5,441.99	1,641.54	1,352.11	289.44	5.672			
13,100.00	7,133.57	13,072.01	7,316.62	148.52	147.34	96.40	-316.51	5,541.99	1,641.56	1,347.14	294.42	5.576			
13,200.00	7,133.88	13,172.01	7,317.12	151.02	149.85	96.41	-316.26	5,641.99	1,641.58	1,342.17	299.40	5.483			
13,300.00	7,134.19	13,272.01	7,317.62	153.52	152.36	96.42	-316.01	5,741.99	1,641.60	1,337.21	304.39	5.393			
13,400.00	7,134.50	13,372.01	7,318.12	156.02	154.87	96.42	-315.77	5,841.99	1,641.61	1,332.24	309.38	5.306			
13,500.00	7,134.81	13,472.01	7,318.62	158.52	157.38	96.43	-315.52	5,941.99	1,641.63	1,327.27	314.36	5.222			
13,600.00	7,135.12	13,572.01	7,319.12	161.03	159.89	96.44	-315.27	6,041.98	1,641.65	1,322.30	319.35	5.141			
13,700.00	7,135.43	13,672.01	7,319.62	163.53	162.41	96.44	-315.02	6,141.98	1,641.67	1,317.33	324.34	5.062			
13,800.00	7,135.74	13,772.01	7,320.12	166.03	164.92	96.45	-314.77	6,241.98	1,641.69	1,312.35	329.33	4.985			
13,900.00	7,136.05	13,872.01	7,320.62	168.54	167.43	96.46	-314.52	6,341.98	1,641.71	1,307.38	334.33	4.910			
14,000.00	7,136.36	13,972.01	7,321.12	171.04	169.95	96.46	-314.27	6,441.98	1,641.72	1,302.41	339.32	4.838			
14,100.00	7,136.67	14,072.01	7,321.62	173.55	172.46	96.47	-314.03	6,541.98	1,641.74	1,297.43	344.31	4.768			
14,200.00	7,136.98	14,172.01	7,322.12	176.05	174.98	96.48	-313.78	6,641.97	1,641.76	1,292.45	349.31	4.700			
14,300.00	7,137.29	14,272.01	7,322.62	178.56	177.49	96.48	-313.53	6,741.97	1,641.78	1,287.48	354.30	4.634			
14,400.00	7,137.60	14,372.01	7,323.12	181.07	180.01	96.49	-313.28	6,841.97	1,641.80	1,282.50	359.30	4.569			
14,500.00	7,137.91	14,472.01	7,323.62	183.58	182.52	96.49	-313.03	6,941.97	1,641.82	1,277.52	364.29	4.507			
14,600.00	7,138.22	14,572.01	7,324.12	186.09	185.04	96.50	-312.78	7,041.97	1,641.83	1,272.55	369.29	4.446			
14,700.00	7,138.53	14,672.01	7,324.62	188.59	187.55	96.51	-312.53	7,141.97	1,641.85	1,267.57	374.29	4.387			
14,800.00	7,138.84	14,772.01	7,325.13	191.10	190.07	96.51	-312.29	7,241.96	1,641.87	1,262.59	379.29	4.329			
14,900.00	7,139.15	14,872.01	7,325.63	193.61	192.59	96.52	-312.04	7,341.96	1,641.89	1,257.61	384.28	4.273			
15,000.00	7,139.46	14,972.01	7,326.13	196.13	195.11	96.53	-311.79	7,441.96	1,641.91	1,252.63	389.28	4.218			
15,100.00	7,139.77	15,072.01	7,326.63	198.64	197.62	96.53	-311.54	7,541.96	1,641.93	1,247.65	394.28	4.164			
15,200.00	7,140.08	15,172.01	7,327.13	201.15	200.14	96.54	-311.29	7,641.96	1,641.95	1,242.66	399.28	4.112			
15,300.00	7,140.39	15,272.01	7,327.63	203.66	202.66	96.55	-311.04	7,741.95	1,641.96	1,237.68	404.28	4.061			
15,400.00	7,140.70	15,372.01	7,328.13	206.17	205.18	96.55	-310.79	7,841.95	1,641.98	1,232.70	409.28	4.012			
15,500.00	7,141.01	15,472.01	7,328.63	208.68	207.70	96.56	-310.54	7,941.95	1,642.00	1,227.72	414.28	3.963			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 5H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,600.00	7,141.32	15,572.00	7,329.13	211.20	210.21	96.57	-310.30	8,041.95	1,642.02	1,222.74	419.29	3.916		
15,700.00	7,141.63	15,672.00	7,329.63	213.71	212.73	96.57	-310.05	8,141.95	1,642.04	1,217.75	424.29	3.870		
15,800.00	7,141.94	15,772.00	7,330.13	216.22	215.25	96.58	-309.80	8,241.95	1,642.06	1,212.77	429.29	3.825		
15,900.00	7,142.25	15,872.00	7,330.63	218.74	217.77	96.59	-309.55	8,341.94	1,642.08	1,207.78	434.29	3.781		
16,000.00	7,142.56	15,972.00	7,331.13	221.25	220.29	96.59	-309.30	8,441.94	1,642.10	1,202.80	439.29	3.738		
16,100.00	7,142.87	16,072.00	7,331.63	223.77	222.81	96.60	-309.05	8,541.94	1,642.11	1,197.82	444.30	3.696		
16,200.00	7,143.18	16,172.00	7,332.13	226.28	225.33	96.61	-308.80	8,641.94	1,642.13	1,192.83	449.30	3.655		
16,300.00	7,143.49	16,272.00	7,332.63	228.80	227.85	96.61	-308.56	8,741.94	1,642.15	1,187.85	454.31	3.615		
16,400.00	7,143.80	16,372.00	7,333.13	231.31	230.37	96.62	-308.31	8,841.94	1,642.17	1,182.86	459.31	3.575		
16,500.00	7,144.11	16,472.00	7,333.63	233.83	232.89	96.63	-308.06	8,941.93	1,642.19	1,177.88	464.31	3.537		
16,600.00	7,144.42	16,572.00	7,334.13	236.34	235.41	96.63	-307.81	9,041.93	1,642.21	1,172.89	469.32	3.499		
16,700.00	7,144.73	16,672.00	7,334.63	238.86	237.93	96.64	-307.56	9,141.93	1,642.23	1,167.91	474.32	3.462		
16,747.88	7,144.88	16,719.87	7,334.87	240.06	239.14	96.64	-307.44	9,189.80	1,642.24	1,165.22	477.01	3.443		
16,800.00	7,145.05	16,745.13	7,335.00	241.37	239.78	96.65	-307.38	9,215.06	1,642.47	1,163.66	478.81	3.430		
16,900.00	7,145.36	16,745.13	7,335.00	243.89	239.78	96.65	-307.38	9,215.06	1,647.16	1,165.28	481.88	3.418 SF		
17,000.00	7,145.67	16,745.13	7,335.00	246.41	239.78	96.65	-307.38	9,215.06	1,657.88	1,172.94	484.95	3.419		
17,100.00	7,145.98	16,745.13	7,335.00	248.93	239.78	96.65	-307.38	9,215.06	1,674.52	1,186.50	488.01	3.431		
17,200.00	7,146.29	16,745.13	7,335.00	251.44	239.78	96.65	-307.38	9,215.06	1,696.89	1,205.81	491.08	3.455		
17,300.00	7,146.60	16,745.13	7,335.00	253.96	239.78	96.65	-307.38	9,215.06	1,724.78	1,230.63	494.15	3.490		
17,400.00	7,146.91	16,745.13	7,335.00	256.48	239.78	96.65	-307.38	9,215.06	1,757.93	1,260.70	497.22	3.535		
17,430.36	7,147.00	16,745.13	7,335.00	257.24	239.78	96.65	-307.38	9,215.06	1,768.99	1,270.83	498.16	3.551		



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 6H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	3.00	0.00	0.00	-160.18	-94.08	-33.90	100.05					
100.00	100.00	97.00	100.00	0.08	0.08	-160.18	-94.08	-33.90	100.00	99.84	0.17	602.250		
200.00	200.00	197.00	200.00	0.31	0.30	-160.18	-94.08	-33.90	100.00	99.39	0.61	163.571		
300.00	300.00	297.00	300.00	0.53	0.53	-160.18	-94.08	-33.90	100.00	98.94	1.06	94.261		
400.00	400.00	397.00	400.00	0.76	0.75	-160.18	-94.08	-33.90	100.00	98.49	1.51	66.207		
500.00	500.00	497.00	500.00	0.98	0.98	-160.18	-94.08	-33.90	100.00	98.04	1.96	51.022		
600.00	600.00	597.00	600.00	1.21	1.20	-160.18	-94.08	-33.90	100.00	97.59	2.41	41.503		
700.00	700.00	697.00	700.00	1.43	1.43	-160.18	-94.08	-33.90	100.00	97.14	2.86	34.977		
800.00	800.00	797.00	800.00	1.66	1.65	-160.18	-94.08	-33.90	100.00	96.69	3.31	30.225 CC, ES		
900.00	900.00	893.74	896.72	1.88	1.84	-160.04	-95.42	-34.65	101.57	97.84	3.73	27.258		
1,000.00	1,000.00	990.16	993.02	2.11	2.02	-159.62	-99.58	-36.99	106.46	102.33	4.13	25.799		
1,100.00	1,099.98	1,086.04	1,088.57	2.33	2.21	-135.83	-106.52	-40.89	115.91	111.38	4.53	25.565		
1,200.00	1,199.84	1,180.83	1,182.71	2.56	2.42	-136.40	-116.11	-46.29	131.12	126.17	4.95	26.500		
1,300.00	1,299.45	1,274.03	1,274.87	2.79	2.66	-137.39	-128.19	-53.08	152.05	146.68	5.37	28.315		
1,400.00	1,398.70	1,365.18	1,364.52	3.03	2.93	-138.51	-142.52	-61.14	178.63	172.83	5.80	30.794		
1,500.00	1,497.47	1,458.79	1,456.20	3.30	3.24	-139.74	-159.00	-70.40	209.91	203.65	6.25	33.568		
1,600.00	1,595.62	1,552.58	1,548.05	3.61	3.58	-141.06	-175.57	-79.72	243.94	237.22	6.72	36.301		
1,700.00	1,693.06	1,645.25	1,638.79	3.95	3.92	-142.38	-191.95	-88.93	280.73	273.52	7.20	38.977		
1,800.00	1,789.64	1,736.67	1,728.31	4.35	4.28	-143.65	-208.10	-98.01	320.30	312.60	7.70	41.598		
1,900.00	1,885.30	1,826.78	1,816.55	4.80	4.63	-144.96	-224.02	-106.96	362.64	354.42	8.22	44.122		
2,000.00	1,980.64	1,916.46	1,904.37	5.29	4.99	-146.42	-239.87	-115.88	405.97	397.20	8.77	46.271		
2,100.00	2,075.99	2,006.15	1,992.20	5.80	5.36	-147.60	-255.72	-124.79	449.48	440.14	9.34	48.128		
2,200.00	2,171.34	2,095.84	2,080.02	6.33	5.73	-148.57	-271.57	-133.70	493.12	483.21	9.91	49.743		
2,300.00	2,266.68	2,185.52	2,167.85	6.87	6.10	-149.39	-287.41	-142.61	536.86	526.36	10.49	51.154		
2,400.00	2,362.03	2,275.21	2,255.67	7.41	6.48	-150.08	-303.26	-151.52	580.67	569.58	11.08	52.396		
2,500.00	2,457.38	2,364.90	2,343.49	7.97	6.85	-150.67	-319.11	-160.43	624.53	612.86	11.67	53.496		
2,600.00	2,552.72	2,454.58	2,431.32	8.53	7.23	-151.19	-334.95	-169.34	668.45	656.18	12.27	54.474		
2,700.00	2,648.07	2,544.27	2,519.14	9.10	7.62	-151.65	-350.80	-178.25	712.41	699.54	12.87	55.349		
2,800.00	2,743.42	2,633.96	2,606.97	9.67	8.00	-152.05	-366.65	-187.16	756.40	742.92	13.47	56.135		
2,900.00	2,838.77	2,723.64	2,694.79	10.24	8.38	-152.41	-382.50	-196.07	800.41	786.33	14.08	56.844		
3,000.00	2,934.11	2,813.33	2,782.62	10.82	8.77	-152.73	-398.34	-204.98	844.45	829.76	14.69	57.487		
3,100.00	3,029.46	2,903.02	2,870.44	11.40	9.16	-153.01	-414.19	-213.89	888.50	873.20	15.30	58.071		
3,200.00	3,124.81	2,992.70	2,958.27	11.98	9.54	-153.28	-430.04	-222.80	932.58	916.66	15.91	58.605		
3,300.00	3,220.15	3,082.39	3,046.09	12.56	9.93	-153.51	-445.89	-231.71	976.66	960.14	16.53	59.094		
3,400.00	3,315.50	3,172.08	3,133.91	13.14	10.32	-153.73	-461.73	-240.62	1,020.76	1,003.62	17.14	59.543		
3,500.00	3,410.85	3,261.76	3,221.74	13.73	10.71	-153.93	-477.58	-249.54	1,064.87	1,047.11	17.76	59.957		
3,600.00	3,506.19	3,351.45	3,309.56	14.32	11.10	-154.11	-493.43	-258.45	1,108.99	1,090.61	18.38	60.340		
3,700.00	3,601.54	3,441.13	3,397.39	14.91	11.49	-154.28	-509.27	-267.36	1,153.12	1,134.12	19.00	60.695		
3,800.00	3,696.89	3,530.82	3,485.21	15.50	11.88	-154.44	-525.12	-276.27	1,197.26	1,177.64	19.62	61.025		
3,900.00	3,792.24	3,620.51	3,573.04	16.09	12.27	-154.59	-540.97	-285.18	1,241.40	1,221.16	20.24	61.332		
4,000.00	3,887.58	3,710.19	3,660.86	16.68	12.66	-154.72	-556.82	-294.09	1,285.55	1,264.69	20.86	61.619		
4,100.00	3,982.93	3,799.88	3,748.69	17.27	13.06	-154.85	-572.66	-303.00	1,329.70	1,308.22	21.49	61.887		
4,200.00	4,078.28	3,889.57	3,836.51	17.86	13.45	-154.97	-588.51	-311.91	1,373.86	1,351.75	22.11	62.138		
4,300.00	4,173.62	3,979.25	3,924.33	18.45	13.84	-155.08	-604.36	-320.82	1,418.02	1,395.29	22.73	62.374		
4,400.00	4,268.97	4,068.94	4,012.16	19.05	14.23	-155.18	-620.21	-329.73	1,462.19	1,438.83	23.36	62.595		
4,500.00	4,364.32	4,158.63	4,099.98	19.64	14.63	-155.28	-636.05	-338.64	1,506.36	1,482.38	23.99	62.804		
4,600.00	4,459.67	4,248.31	4,187.81	20.23	15.02	-155.38	-651.90	-347.55	1,550.54	1,525.93	24.61	63.002		
4,700.00	4,555.01	4,338.00	4,275.63	20.83	15.41	-155.46	-667.75	-356.46	1,594.72	1,569.48	25.24	63.188		
4,800.00	4,650.36	4,427.69	4,363.46	21.42	15.81	-155.55	-683.59	-365.37	1,638.90	1,613.03	25.86	63.364		
4,900.00	4,745.71	4,517.37	4,451.28	22.02	16.20	-155.62	-699.44	-374.28	1,683.08	1,656.59	26.49	63.531		
5,000.00	4,841.05	4,607.06	4,539.11	22.61	16.59	-155.70	-715.29	-383.20	1,727.27	1,700.15	27.12	63.690		
5,100.00	4,936.40	4,696.75	4,626.93	23.21	16.99	-155.77	-731.14	-392.11	1,771.45	1,743.70	27.75	63.840		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 6H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,031.75	4,786.43	4,714.75	23.80	17.38	-155.84	-746.98	-401.02	1,815.64	1,787.27	28.38	63.983		
5,300.00	5,127.09	4,876.12	4,802.58	24.40	17.78	-155.90	-762.83	-409.93	1,859.83	1,830.83	29.01	64.120		
5,400.00	5,222.44	4,965.80	4,890.40	25.00	18.17	-155.96	-778.68	-418.84	1,904.03	1,874.39	29.63	64.249		
5,500.00	5,317.79	5,055.49	4,978.23	25.59	18.57	-156.02	-794.53	-427.75	1,948.22	1,917.96	30.26	64.373		
5,600.00	5,413.14	5,145.18	5,066.05	26.19	18.96	-156.08	-810.37	-436.66	1,992.42	1,961.53	30.89	64.492		
5,700.00	5,508.48	5,234.86	5,153.88	26.78	19.35	-156.14	-826.22	-445.57	2,036.62	2,005.09	31.53	64.601		
5,800.00	5,604.35	5,325.27	5,242.41	27.24	19.75	-156.54	-842.19	-454.55	2,079.34	2,047.08	32.25	64.471		
5,900.00	5,701.15	5,417.00	5,332.23	27.65	20.16	-156.87	-858.40	-463.67	2,119.14	2,086.19	32.95	64.319		
6,000.00	5,798.77	5,509.95	5,423.25	28.02	20.57	-157.13	-874.83	-472.90	2,155.97	2,122.37	33.61	64.152		
6,100.00	5,897.08	5,603.99	5,515.34	28.35	20.98	-157.32	-891.44	-482.24	2,189.81	2,155.58	34.23	63.973		
6,200.00	5,995.98	5,699.02	5,608.40	28.63	21.40	-157.45	-908.24	-491.69	2,220.60	2,185.78	34.81	63.786		
6,300.00	6,095.33	5,794.92	5,702.31	28.87	21.82	-157.51	-925.18	-501.21	2,248.32	2,212.96	35.35	63.595		
6,400.00	6,195.01	5,822.44	5,827.25	29.06	22.34	-157.46	-947.41	-513.71	2,272.85	2,236.92	35.93	63.266		
6,500.00	6,294.91	6,239.01	6,140.86	29.20	23.12	-157.18	-984.03	-534.30	2,288.36	2,251.60	36.77	62.240		
6,600.00	6,394.89	6,492.26	6,393.87	29.30	23.49	89.39	-991.60	-537.93	2,291.62	2,254.33	37.29	61.460		
6,700.00	6,494.28	6,588.91	6,489.87	29.34	23.53	89.37	-991.57	-527.38	2,291.62	2,254.23	37.40	61.281		
6,800.00	6,591.26	6,685.52	6,583.54	29.31	23.50	89.37	-991.52	-504.02	2,291.62	2,254.30	37.32	61.404		
6,900.00	6,683.95	6,782.14	6,673.22	29.23	23.41	89.38	-991.43	-468.27	2,291.62	2,254.51	37.11	61.749		
7,000.00	6,770.55	6,878.84	6,757.35	29.09	23.27	89.40	-991.31	-420.75	2,291.61	2,254.77	36.85	62.196		
7,100.00	6,849.36	6,975.66	6,834.41	28.92	23.10	89.43	-991.17	-362.25	2,291.60	2,254.97	36.62	62.570		
7,200.00	6,918.86	7,072.67	6,903.01	28.73	22.91	89.47	-991.00	-293.75	2,291.58	2,255.00	36.58	62.645		
7,300.00	6,977.70	7,169.93	6,961.86	28.54	22.72	89.53	-990.81	-216.42	2,291.56	2,254.71	36.85	62.180		
7,400.00	7,027.98	7,268.83	7,012.37	28.35	22.53	89.55	-990.61	-131.41	2,291.56	2,254.01	37.55	61.034		
7,500.00	7,070.01	7,366.62	7,055.75	28.19	22.38	89.61	-990.39	-43.85	2,291.54	2,252.79	38.74	59.146		
7,600.00	7,099.01	7,464.68	7,086.88	28.06	22.27	89.69	-990.16	49.06	2,291.52	2,251.05	40.47	56.626		
7,700.00	7,114.42	7,563.15	7,105.08	27.97	22.26	89.76	-989.92	145.75	2,291.50	2,248.82	42.69	53.683		
7,800.00	7,117.13	7,662.21	7,110.07	28.00	22.69	89.82	-989.68	244.62	2,291.49	2,246.18	45.31	50.570		
7,900.00	7,117.44	7,762.21	7,110.46	28.26	23.91	89.83	-989.43	344.62	2,291.49	2,243.16	48.33	47.415		
8,000.00	7,117.75	7,862.21	7,110.85	28.94	25.55	89.83	-989.18	444.62	2,291.48	2,239.83	51.65	44.366		
8,100.00	7,118.06	7,962.21	7,111.24	30.16	27.36	89.83	-988.93	544.62	2,291.48	2,236.24	55.24	41.484		
8,200.00	7,118.37	8,062.21	7,111.63	31.76	29.28	89.83	-988.68	644.61	2,291.48	2,232.43	59.04	38.811		
8,300.00	7,118.68	8,162.21	7,112.02	33.58	31.29	89.83	-988.43	744.61	2,291.47	2,228.45	63.02	36.358		
8,400.00	7,118.99	8,262.21	7,112.41	35.53	33.37	89.84	-988.19	844.61	2,291.47	2,224.32	67.15	34.123		
8,500.00	7,119.30	8,362.21	7,112.80	37.56	35.51	89.84	-987.94	944.61	2,291.47	2,220.07	71.40	32.093		
8,600.00	7,119.61	8,462.21	7,113.19	39.66	37.69	89.84	-987.69	1,044.61	2,291.46	2,215.72	75.75	30.251		
8,700.00	7,119.92	8,562.21	7,113.57	41.80	39.91	89.84	-987.44	1,144.61	2,291.46	2,211.28	80.18	28.579		
8,800.00	7,120.23	8,662.21	7,113.96	43.99	42.16	89.84	-987.19	1,244.61	2,291.46	2,206.78	84.68	27.060		
8,900.00	7,120.54	8,762.21	7,114.35	46.22	44.44	89.85	-986.94	1,344.61	2,291.45	2,202.21	89.24	25.676		
9,000.00	7,120.85	8,862.21	7,114.74	48.47	46.74	89.85	-986.69	1,444.61	2,291.45	2,197.60	93.86	24.415		
9,100.00	7,121.16	8,962.21	7,115.13	50.75	49.07	89.85	-986.45	1,544.60	2,291.45	2,192.94	98.51	23.261		
9,200.00	7,121.47	9,062.21	7,115.52	53.05	51.41	89.85	-986.20	1,644.60	2,291.44	2,188.24	103.21	22.203		
9,300.00	7,121.78	9,162.21	7,115.91	55.37	53.77	89.85	-985.95	1,744.60	2,291.44	2,183.51	107.93	21.230		
9,400.00	7,122.09	9,262.21	7,116.30	57.71	56.14	89.86	-985.70	1,844.60	2,291.44	2,178.75	112.69	20.335		
9,500.00	7,122.40	9,362.21	7,116.69	60.06	58.53	89.86	-985.45	1,944.60	2,291.44	2,173.97	117.47	19.507		
9,600.00	7,122.71	9,462.21	7,117.08	62.43	60.93	89.86	-985.20	2,044.60	2,291.43	2,169.16	122.27	18.741		
9,700.00	7,123.02	9,562.21	7,117.47	64.80	63.33	89.86	-984.95	2,144.60	2,291.43	2,164.34	127.09	18.030		
9,800.00	7,123.33	9,662.21	7,117.86	67.19	65.75	89.86	-984.71	2,244.60	2,291.43	2,159.49	131.93	17.368		
9,900.00	7,123.65	9,762.21	7,118.24	69.59	68.17	89.86	-984.46	2,344.60	2,291.42	2,154.63	136.79	16.752		
10,000.00	7,123.96	9,862.21	7,118.63	71.99	70.60	89.87	-984.21	2,444.59	2,291.42	2,149.76	141.66	16.176		
10,100.00	7,124.27	9,962.21	7,119.02	74.40	73.04	89.87	-983.96	2,544.59	2,291.42	2,144.88	146.54	15.637		
10,200.00	7,124.58	10,062.21	7,119.41	76.82	75.48	89.87	-983.71	2,644.59	2,291.41	2,139.98	151.43	15.132		
10,300.00	7,124.89	10,162.21	7,119.80	79.25	77.93	89.87	-983.46	2,744.59	2,291.41	2,135.07	156.34	14.657		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 6H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	10,262.21	7,120.19	81.68	80.38	89.87	-983.21	2,844.59	2,291.41	2,130.16	161.25	14.210		
10,500.00	7,125.51	10,362.21	7,120.58	84.12	82.84	89.88	-982.97	2,944.59	2,291.40	2,125.23	166.17	13.789		
10,600.00	7,125.82	10,462.21	7,120.97	86.56	85.30	89.88	-982.72	3,044.59	2,291.40	2,120.30	171.10	13.392		
10,700.00	7,126.13	10,562.21	7,121.36	89.01	87.76	89.88	-982.47	3,144.59	2,291.40	2,115.36	176.04	13.016		
10,800.00	7,126.44	10,662.21	7,121.75	91.46	90.23	89.88	-982.22	3,244.59	2,291.39	2,110.41	180.98	12.661		
10,900.00	7,126.75	10,762.21	7,122.14	93.91	92.70	89.88	-981.97	3,344.58	2,291.39	2,105.46	185.93	12.324		
11,000.00	7,127.06	10,862.21	7,122.53	96.37	95.17	89.89	-981.72	3,444.58	2,291.39	2,100.50	190.89	12.004		
11,100.00	7,127.37	10,962.21	7,122.92	98.83	97.65	89.89	-981.47	3,544.58	2,291.38	2,095.54	195.85	11.700		
11,200.00	7,127.68	11,062.21	7,123.30	101.30	100.13	89.89	-981.23	3,644.58	2,291.38	2,090.57	200.81	11.411		
11,300.00	7,127.99	11,162.21	7,123.69	103.77	102.61	89.89	-980.98	3,744.58	2,291.38	2,085.60	205.78	11.135		
11,400.00	7,128.30	11,262.21	7,124.08	106.24	105.09	89.89	-980.73	3,844.58	2,291.37	2,080.62	210.75	10.872		
11,500.00	7,128.61	11,362.21	7,124.47	108.71	107.58	89.90	-980.48	3,944.58	2,291.37	2,075.64	215.73	10.621		
11,600.00	7,128.92	11,462.21	7,124.86	111.19	110.06	89.90	-980.23	4,044.58	2,291.37	2,070.65	220.71	10.382		
11,700.00	7,129.23	11,562.21	7,125.25	113.66	112.55	89.90	-979.98	4,144.58	2,291.36	2,065.67	225.70	10.152		
11,800.00	7,129.54	11,662.21	7,125.64	116.14	115.04	89.90	-979.73	4,244.57	2,291.36	2,060.68	230.68	9.933		
11,900.00	7,129.85	11,762.21	7,126.03	118.62	117.54	89.90	-979.49	4,344.57	2,291.36	2,055.68	235.67	9.723		
12,000.00	7,130.16	11,862.21	7,126.42	121.11	120.03	89.91	-979.24	4,444.57	2,291.35	2,050.69	240.67	9.521		
12,100.00	7,130.47	11,962.21	7,126.81	123.59	122.52	89.91	-978.99	4,544.57	2,291.35	2,045.69	245.66	9.327		
12,200.00	7,130.78	12,062.21	7,127.20	126.08	125.02	89.91	-978.74	4,644.57	2,291.35	2,040.69	250.66	9.141		
12,300.00	7,131.09	12,162.21	7,127.59	128.57	127.52	89.91	-978.49	4,744.57	2,291.35	2,035.68	255.66	8.962		
12,400.00	7,131.40	12,262.21	7,127.98	131.06	130.02	89.91	-978.24	4,844.57	2,291.34	2,030.68	260.66	8.790		
12,500.00	7,131.71	12,362.21	7,128.36	133.55	132.52	89.92	-977.99	4,944.57	2,291.34	2,025.67	265.67	8.625		
12,600.00	7,132.02	12,462.21	7,128.75	136.04	135.02	89.92	-977.75	5,044.57	2,291.34	2,020.66	270.67	8.465		
12,700.00	7,132.33	12,562.21	7,129.14	138.54	137.52	89.92	-977.50	5,144.56	2,291.33	2,015.65	275.68	8.311		
12,800.00	7,132.64	12,662.21	7,129.53	141.03	140.02	89.92	-977.25	5,244.56	2,291.33	2,010.64	280.69	8.163		
12,900.00	7,132.95	12,762.21	7,129.92	143.53	142.53	89.92	-977.00	5,344.56	2,291.33	2,005.62	285.70	8.020		
13,000.00	7,133.26	12,862.21	7,130.31	146.02	145.03	89.93	-976.75	5,444.56	2,291.32	2,000.61	290.72	7.882		
13,100.00	7,133.57	12,962.21	7,130.70	148.52	147.53	89.93	-976.50	5,544.56	2,291.32	1,995.59	295.73	7.748		
13,200.00	7,133.88	13,062.21	7,131.09	151.02	150.04	89.93	-976.25	5,644.56	2,291.32	1,990.57	300.75	7.619		
13,300.00	7,134.19	13,162.21	7,131.48	153.52	152.55	89.93	-976.01	5,744.56	2,291.31	1,985.55	305.76	7.494		
13,400.00	7,134.50	13,262.21	7,131.87	156.02	155.05	89.93	-975.76	5,844.56	2,291.31	1,980.53	310.78	7.373		
13,500.00	7,134.81	13,362.21	7,132.26	158.52	157.56	89.94	-975.51	5,944.56	2,291.31	1,975.50	315.80	7.256		
13,600.00	7,135.12	13,462.21	7,132.65	161.03	160.07	89.94	-975.26	6,044.55	2,291.30	1,970.48	320.82	7.142		
13,700.00	7,135.43	13,562.21	7,133.04	163.53	162.58	89.94	-975.01	6,144.55	2,291.30	1,965.46	325.85	7.032		
13,800.00	7,135.74	13,662.21	7,133.42	166.03	165.09	89.94	-974.76	6,244.55	2,291.30	1,960.43	330.87	6.925		
13,900.00	7,136.05	13,762.21	7,133.81	168.54	167.60	89.94	-974.51	6,344.55	2,291.29	1,955.40	335.89	6.822		
14,000.00	7,136.36	13,862.21	7,134.20	171.04	170.11	89.95	-974.27	6,444.55	2,291.29	1,950.38	340.92	6.721		
14,100.00	7,136.67	13,962.21	7,134.59	173.55	172.62	89.95	-974.02	6,544.55	2,291.29	1,945.35	345.94	6.623		
14,200.00	7,136.98	14,062.21	7,134.98	176.05	175.13	89.95	-973.77	6,644.55	2,291.29	1,940.32	350.97	6.528		
14,300.00	7,137.29	14,162.21	7,135.37	178.56	177.64	89.95	-973.52	6,744.55	2,291.28	1,935.29	356.00	6.436		
14,400.00	7,137.60	14,262.21	7,135.76	181.07	180.16	89.95	-973.27	6,844.55	2,291.28	1,930.25	361.02	6.347		
14,500.00	7,137.91	14,362.21	7,136.15	183.58	182.67	89.96	-973.02	6,944.55	2,291.28	1,925.22	366.05	6.259		
14,600.00	7,138.22	14,462.21	7,136.54	186.09	185.18	89.96	-972.77	7,044.54	2,291.27	1,920.19	371.08	6.175		
14,700.00	7,138.53	14,562.21	7,136.93	188.59	187.70	89.96	-972.53	7,144.54	2,291.27	1,915.16	376.11	6.092		
14,800.00	7,138.84	14,662.21	7,137.32	191.10	190.21	89.96	-972.28	7,244.54	2,291.27	1,910.12	381.14	6.012		
14,900.00	7,139.15	14,762.21	7,137.71	193.61	192.73	89.96	-972.03	7,344.54	2,291.26	1,905.09	386.18	5.933		
15,000.00	7,139.46	14,862.21	7,138.10	196.13	195.24	89.97	-971.78	7,444.54	2,291.26	1,900.05	391.21	5.857		
15,100.00	7,139.77	14,962.21	7,138.48	198.64	197.76	89.97	-971.53	7,544.54	2,291.26	1,895.02	396.24	5.782		
15,200.00	7,140.08	15,062.21	7,138.87	201.15	200.27	89.97	-971.28	7,644.54	2,291.25	1,889.98	401.27	5.710		
15,300.00	7,140.39	15,162.21	7,139.26	203.66	202.79	89.97	-971.03	7,744.54	2,291.25	1,884.94	406.31	5.639		
15,400.00	7,140.70	15,262.21	7,139.65	206.17	205.30	89.97	-970.79	7,844.54	2,291.25	1,879.90	411.34	5.570		
15,500.00	7,141.01	15,362.21	7,140.04	208.68	207.82	89.98	-970.54	7,944.53	2,291.24	1,874.87	416.38	5.503		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 6H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
15,600.00	7,141.32	15,462.21	7,140.43	211.20	210.34	89.98	-970.29	8,044.53	2,291.24	1,869.83	421.41	5.437	
15,700.00	7,141.63	15,562.21	7,140.82	213.71	212.85	89.98	-970.04	8,144.53	2,291.24	1,864.79	426.45	5.373	
15,800.00	7,141.94	15,662.21	7,141.21	216.22	215.37	89.98	-969.79	8,244.53	2,291.24	1,859.75	431.49	5.310	
15,900.00	7,142.25	15,762.21	7,141.60	218.74	217.89	89.98	-969.54	8,344.53	2,291.23	1,854.71	436.52	5.249	
16,000.00	7,142.56	15,862.21	7,141.99	221.25	220.40	89.99	-969.29	8,444.53	2,291.23	1,849.67	441.56	5.189	
16,100.00	7,142.87	15,962.21	7,142.38	223.77	222.92	89.99	-969.05	8,544.53	2,291.23	1,844.63	446.60	5.130	
16,200.00	7,143.18	16,062.21	7,142.77	226.28	225.44	89.99	-968.80	8,644.53	2,291.22	1,839.59	451.64	5.073	
16,300.00	7,143.49	16,162.21	7,143.16	228.80	227.96	89.99	-968.55	8,744.53	2,291.22	1,834.55	456.67	5.017	
16,400.00	7,143.80	16,262.21	7,143.54	231.31	230.48	89.99	-968.30	8,844.52	2,291.22	1,829.50	461.71	4.962	
16,500.00	7,144.11	16,362.21	7,143.93	233.83	233.00	90.00	-968.05	8,944.52	2,291.21	1,824.46	466.75	4.909	
16,600.00	7,144.42	16,462.21	7,144.32	236.34	235.51	90.00	-967.80	9,044.52	2,291.21	1,819.42	471.79	4.856	
16,700.00	7,144.73	16,562.21	7,144.71	238.86	238.03	90.00	-967.55	9,144.52	2,291.21	1,814.38	476.83	4.805	
16,760.26	7,144.92	16,622.47	7,144.95	240.38	239.55	90.00	-967.40	9,204.78	2,291.21	1,811.11	480.10	4.772	
16,800.00	7,145.05	16,636.27	7,145.00	241.37	239.90	90.00	-967.37	9,218.58	2,291.35	1,809.99	481.37	4.760	
16,900.00	7,145.36	16,636.27	7,145.00	243.89	239.90	90.00	-967.37	9,218.58	2,294.66	1,810.21	484.45	4.737	
17,000.00	7,145.67	16,636.27	7,145.00	246.41	239.90	90.00	-967.37	9,218.58	2,302.31	1,814.77	487.54	4.722	
17,100.00	7,145.98	16,636.27	7,145.00	248.93	239.90	90.00	-967.37	9,218.58	2,314.26	1,823.63	490.63	4.717 SF	
17,200.00	7,146.29	16,636.27	7,145.00	251.44	239.90	90.00	-967.37	9,218.58	2,330.45	1,836.73	493.72	4.720	
17,300.00	7,146.60	16,636.27	7,145.00	253.96	239.90	90.00	-967.37	9,218.58	2,350.78	1,853.97	496.81	4.732	
17,400.00	7,146.91	16,636.27	7,145.00	256.48	239.90	90.00	-967.37	9,218.58	2,375.15	1,875.25	499.90	4.751	
17,430.36	7,147.00	16,636.27	7,145.00	257.24	239.90	90.00	-967.37	9,218.58	2,383.33	1,882.49	500.84	4.759	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 7H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD														Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	3.00	0.00	0.00	-160.18	-112.90	-40.69	120.05						
100.00	100.00	97.00	100.00	0.08	0.08	-160.18	-112.90	-40.69	120.01	119.84	0.17	722.743			
200.00	200.00	197.00	200.00	0.31	0.30	-160.18	-112.90	-40.69	120.01	119.40	0.61	196.297			
300.00	300.00	297.00	300.00	0.53	0.53	-160.18	-112.90	-40.69	120.01	118.95	1.06	113.120			
400.00	400.00	397.00	400.00	0.76	0.75	-160.18	-112.90	-40.69	120.01	118.50	1.51	79.453			
500.00	500.00	497.00	500.00	0.98	0.98	-160.18	-112.90	-40.69	120.01	118.05	1.96	61.230			
600.00	600.00	597.00	600.00	1.21	1.20	-160.18	-112.90	-40.69	120.01	117.60	2.41	49.807			
700.00	700.00	697.00	700.00	1.43	1.43	-160.18	-112.90	-40.69	120.01	117.15	2.86	41.975			
800.00	800.00	797.00	800.00	1.66	1.65	-160.18	-112.90	-40.69	120.01	116.70	3.31	36.272			
900.00	900.00	897.00	900.00	1.88	1.88	-160.18	-112.90	-40.69	120.01	116.25	3.76	31.933			
1,000.00	1,000.00	997.00	1,000.00	2.11	2.10	-160.18	-112.90	-40.69	120.01	115.80	4.21	28.522 CC, ES			
1,100.00	1,099.98	1,093.01	1,095.99	2.33	2.29	-137.09	-114.34	-41.15	122.86	118.23	4.62	26.577			
1,200.00	1,199.84	1,188.33	1,191.19	2.56	2.46	-138.51	-118.79	-42.59	131.64	126.62	5.02	26.227			
1,300.00	1,299.45	1,282.50	1,285.05	2.79	2.64	-140.47	-126.15	-44.96	146.46	141.04	5.42	27.007			
1,400.00	1,398.70	1,375.00	1,376.93	3.03	2.84	-142.58	-136.23	-48.20	167.38	161.54	5.84	28.684			
1,500.00	1,497.47	1,465.33	1,466.29	3.30	3.05	-144.57	-148.79	-52.25	194.37	188.12	6.26	31.075			
1,600.00	1,595.62	1,553.03	1,552.60	3.61	3.29	-146.30	-163.55	-57.00	227.31	220.63	6.68	34.019			
1,700.00	1,693.06	1,637.72	1,635.47	3.95	3.56	-147.70	-180.19	-62.35	266.01	258.89	7.12	37.381			
1,800.00	1,789.64	1,719.07	1,714.55	4.35	3.84	-148.80	-198.35	-68.20	310.20	302.64	7.56	41.041			
1,900.00	1,885.30	1,800.00	1,792.64	4.80	4.16	-149.80	-218.54	-74.70	359.57	351.55	8.02	44.831			
2,000.00	1,980.64	1,871.93	1,861.53	5.29	4.49	-150.80	-238.23	-81.04	412.05	403.55	8.50	48.466			
2,100.00	2,075.99	1,944.73	1,930.70	5.80	4.85	-151.53	-259.84	-88.00	466.73	457.74	9.00	51.876			
2,200.00	2,171.34	2,021.74	2,003.32	6.33	5.26	-152.10	-284.21	-95.84	523.19	513.68	9.51	54.989			
2,300.00	2,266.68	2,104.01	2,080.85	6.87	5.72	-152.58	-310.44	-104.29	579.91	569.86	10.05	57.696			
2,400.00	2,362.03	2,186.28	2,158.37	7.41	6.19	-152.98	-336.67	-112.73	636.64	626.04	10.60	60.603			
2,500.00	2,457.38	2,268.56	2,235.89	7.97	6.68	-153.31	-362.90	-121.18	693.40	682.24	11.16	62.146			
2,600.00	2,552.72	2,350.83	2,313.42	8.53	7.17	-153.59	-389.13	-129.62	750.16	738.44	11.72	63.990			
2,700.00	2,648.07	2,433.11	2,390.94	9.10	7.67	-153.83	-415.35	-138.07	806.94	794.64	12.30	65.628			
2,800.00	2,743.42	2,515.38	2,468.46	9.67	8.18	-154.05	-441.58	-146.51	863.72	850.85	12.87	67.089			
2,900.00	2,838.77	2,597.66	2,545.98	10.24	8.69	-154.23	-467.81	-154.96	920.52	907.06	13.46	68.397			
3,000.00	2,934.11	2,679.93	2,623.51	10.82	9.20	-154.39	-494.04	-163.40	977.31	963.27	14.05	69.570			
3,100.00	3,029.46	2,762.20	2,701.03	11.40	9.72	-154.54	-520.27	-171.84	1,034.12	1,019.48	14.64	70.630			
3,200.00	3,124.81	2,844.48	2,778.55	11.98	10.24	-154.67	-546.50	-180.29	1,090.92	1,075.69	15.24	71.591			
3,300.00	3,220.15	2,926.75	2,856.08	12.56	10.77	-154.79	-572.73	-188.73	1,147.73	1,131.89	15.84	72.464			
3,400.00	3,315.50	3,009.03	2,933.60	13.14	11.29	-154.89	-598.95	-197.18	1,204.55	1,188.10	16.44	73.260			
3,500.00	3,410.85	3,091.30	3,011.12	13.73	11.82	-154.99	-625.18	-205.62	1,261.36	1,244.31	17.05	73.989			
3,600.00	3,506.19	3,173.57	3,088.64	14.32	12.35	-155.08	-651.41	-214.07	1,318.18	1,300.52	17.66	74.656			
3,700.00	3,601.54	3,255.85	3,166.17	14.91	12.88	-155.16	-677.64	-222.51	1,375.00	1,356.73	18.27	75.271			
3,800.00	3,696.89	3,338.12	3,243.69	15.50	13.41	-155.23	-703.87	-230.96	1,431.82	1,412.94	18.88	75.838			
3,900.00	3,792.24	3,420.40	3,321.21	16.09	13.94	-155.30	-730.10	-239.40	1,488.65	1,469.15	19.49	76.363			
4,000.00	3,887.58	3,502.67	3,398.74	16.68	14.47	-155.36	-756.33	-247.84	1,545.47	1,525.36	20.11	76.849			
4,100.00	3,982.93	3,584.95	3,476.26	17.27	15.01	-155.42	-782.55	-256.29	1,602.30	1,581.57	20.73	77.301			
4,200.00	4,078.28	3,667.22	3,553.78	17.86	15.54	-155.48	-808.78	-264.73	1,659.12	1,637.78	21.35	77.722			
4,300.00	4,173.62	3,749.49	3,631.30	18.45	16.08	-155.53	-835.01	-273.18	1,715.95	1,693.98	21.97	78.114			
4,400.00	4,268.97	3,831.77	3,708.83	19.05	16.61	-155.58	-861.24	-281.62	1,772.78	1,750.19	22.59	78.482			
4,500.00	4,364.32	3,914.04	3,786.35	19.64	17.15	-155.62	-887.47	-290.07	1,829.61	1,806.40	23.21	78.826			
4,600.00	4,459.67	3,996.32	3,863.87	20.23	17.68	-155.67	-913.70	-298.51	1,886.44	1,862.60	23.83	79.149			
4,700.00	4,555.01	4,078.59	3,941.40	20.83	18.22	-155.71	-939.93	-306.96	1,943.27	1,918.81	24.46	79.452			
4,800.00	4,650.36	4,160.87	4,018.92	21.42	18.76	-155.75	-966.15	-315.40	2,000.10	1,975.02	25.08	79.737			
4,900.00	4,745.71	4,243.14	4,096.44	22.02	19.30	-155.78	-992.38	-323.84	2,056.93	2,031.22	25.71	80.007			
5,000.00	4,841.05	4,325.41	4,173.96	22.61	19.84	-155.81	-1,018.61	-332.29	2,113.76	2,087.43	26.34	80.261			
5,100.00	4,936.40	4,407.69	4,251.49	23.21	20.37	-155.85	-1,044.84	-340.73	2,170.60	2,143.63	26.96	80.502			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 7H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,031.75	4,489.96	4,329.01	23.80	20.91	-155.88	-1,071.07	-349.18	2,227.43	2,199.84	27.59	80.729	
5,300.00	5,127.09	4,572.24	4,406.53	24.40	21.45	-155.91	-1,097.30	-357.62	2,284.27	2,256.05	28.22	80.945	
5,400.00	5,222.44	4,654.51	4,484.06	25.00	21.99	-155.93	-1,123.53	-366.07	2,341.10	2,312.25	28.85	81.150	
5,500.00	5,317.79	4,736.78	4,561.58	25.59	22.53	-155.96	-1,149.75	-374.51	2,397.93	2,368.46	29.48	81.344	
5,600.00	5,413.14	4,819.06	4,639.10	26.19	23.07	-155.98	-1,175.98	-382.96	2,454.77	2,424.66	30.11	81.529	
5,700.00	5,508.48	4,901.33	4,716.62	26.78	23.61	-156.02	-1,202.21	-391.40	2,511.60	2,480.86	30.74	81.698	
5,800.00	5,604.35	4,984.53	4,795.02	27.24	24.16	-156.56	-1,228.73	-399.94	2,567.08	2,535.56	31.52	81.444	
5,900.00	5,701.15	5,069.45	4,875.03	27.65	24.72	-157.01	-1,256.81	-408.66	2,619.86	2,587.59	32.27	81.180	
6,000.00	5,798.77	5,155.99	4,956.58	28.02	25.29	-157.39	-1,283.40	-417.54	2,669.89	2,636.89	33.00	80.916	
6,100.00	5,897.08	5,244.05	5,039.55	28.35	25.87	-157.71	-1,311.47	-426.58	2,717.10	2,683.42	33.69	80.660	
6,200.00	5,995.98	5,333.51	5,123.84	28.63	26.45	-157.96	-1,339.99	-435.76	2,761.46	2,727.12	34.34	80.415	
6,300.00	6,095.33	5,424.27	5,209.36	28.87	27.05	-158.15	-1,368.92	-445.07	2,802.90	2,767.95	34.95	80.187	
6,400.00	6,195.01	5,516.22	5,296.00	29.06	27.66	-158.29	-1,398.24	-454.51	2,841.39	2,805.87	35.53	79.978	
6,500.00	6,294.91	5,609.25	5,383.66	29.20	28.27	-158.37	-1,427.89	-464.06	2,876.90	2,840.85	36.06	79.791	
6,600.00	6,394.89	5,703.17	5,472.15	29.30	28.89	87.54	-1,457.83	-473.70	2,909.47	2,872.94	36.53	79.647	
6,700.00	6,494.28	5,795.75	5,559.38	29.34	29.50	85.33	-1,487.35	-483.20	2,940.75	2,903.79	36.96	79.568	
6,800.00	6,591.26	5,848.38	5,591.84	29.31	32.56	90.15	-1,651.59	-534.12	2,951.49	2,912.19	39.30	75.099	
6,900.00	6,683.95	5,948.27	5,690.62	29.23	32.59	90.59	-1,651.55	-519.81	2,951.65	2,912.35	39.30	75.109	
7,000.00	6,770.55	7,051.74	6,789.80	29.09	32.55	91.04	-1,651.48	-490.66	2,951.99	2,912.80	39.20	75.313	
7,100.00	6,849.36	7,159.08	6,887.15	28.92	32.46	91.47	-1,651.37	-445.67	2,952.50	2,913.45	39.05	75.603	
7,200.00	6,918.86	7,270.54	6,979.93	28.73	32.32	91.88	-1,651.22	-384.12	2,953.15	2,914.18	38.96	75.796	
7,300.00	6,977.70	7,386.23	7,064.94	28.54	32.16	92.26	-1,651.03	-305.82	2,953.87	2,914.81	39.05	75.635	
7,400.00	7,027.98	7,506.51	7,138.77	28.35	31.99	92.56	-1,650.80	-211.04	2,954.44	2,914.96	39.48	74.833	
7,500.00	7,070.01	7,615.17	7,193.94	28.19	31.86	92.73	-1,650.57	-117.45	2,954.89	2,914.50	40.39	73.157	
7,600.00	7,099.01	7,740.39	7,245.20	28.06	31.77	92.98	-1,650.29	-3.39	2,955.54	2,913.66	41.88	70.571	
7,700.00	7,114.42	7,868.59	7,276.32	27.97	31.79	93.17	-1,649.98	120.81	2,956.02	2,912.03	43.99	67.196	
7,800.00	7,117.13	7,993.44	7,285.11	28.00	31.98	93.26	-1,649.67	245.20	2,956.25	2,909.62	46.63	63.402	
7,900.00	7,117.44	8,093.44	7,285.72	28.26	32.30	93.26	-1,649.42	345.20	2,956.26	2,906.73	49.53	59.686	
8,000.00	7,117.75	8,193.44	7,286.33	28.94	32.82	93.27	-1,649.18	445.20	2,956.28	2,903.52	52.76	56.036	
8,100.00	7,118.06	8,293.44	7,286.95	30.16	33.60	93.27	-1,648.93	545.19	2,956.29	2,900.04	56.25	52.552	
8,200.00	7,118.37	8,393.44	7,287.56	31.76	34.64	93.28	-1,648.68	645.19	2,956.31	2,896.33	59.98	49.292	
8,300.00	7,118.68	8,493.44	7,288.17	33.58	35.95	93.29	-1,648.43	745.19	2,956.32	2,892.44	63.88	46.278	
8,400.00	7,118.99	8,593.44	7,288.78	35.53	37.48	93.29	-1,648.18	845.19	2,956.34	2,888.40	67.94	43.515	
8,500.00	7,119.30	8,693.44	7,289.39	37.56	39.19	93.30	-1,647.93	945.18	2,956.35	2,884.23	72.12	40.991	
8,600.00	7,119.61	8,793.43	7,290.00	39.66	41.03	93.30	-1,647.68	1,045.18	2,956.37	2,879.95	76.41	38.691	
8,700.00	7,119.92	8,893.43	7,290.61	41.80	42.98	93.31	-1,647.44	1,145.18	2,956.38	2,875.59	80.79	36.595	
8,800.00	7,120.23	8,993.43	7,291.23	43.99	45.00	93.32	-1,647.19	1,245.18	2,956.39	2,871.16	85.24	34.684	
8,900.00	7,120.54	9,093.43	7,291.84	46.22	47.09	93.32	-1,646.94	1,345.17	2,956.41	2,866.65	89.75	32.939	
9,000.00	7,120.85	9,193.43	7,292.45	48.47	49.23	93.33	-1,646.69	1,445.17	2,956.42	2,862.10	94.32	31.343	
9,100.00	7,121.16	9,293.43	7,293.06	50.75	51.41	93.33	-1,646.44	1,545.17	2,956.44	2,857.50	98.94	29.881	
9,200.00	7,121.47	9,393.43	7,293.67	53.05	53.62	93.34	-1,646.19	1,645.16	2,956.45	2,852.86	103.60	28.538	
9,300.00	7,121.78	9,493.43	7,294.28	55.37	55.87	93.34	-1,645.95	1,745.16	2,956.47	2,848.18	108.29	27.302	
9,400.00	7,122.09	9,593.43	7,294.90	57.71	58.14	93.35	-1,645.70	1,845.16	2,956.48	2,843.47	113.01	26.161	
9,500.00	7,122.40	9,693.43	7,295.51	60.06	60.44	93.36	-1,645.45	1,945.16	2,956.50	2,838.74	117.76	25.106	
9,600.00	7,122.71	9,793.43	7,296.12	62.43	62.75	93.36	-1,645.20	2,045.15	2,956.51	2,833.98	122.53	24.128	
9,700.00	7,123.02	9,893.43	7,296.73	64.80	65.08	93.37	-1,644.95	2,145.15	2,956.53	2,829.20	127.33	23.220	
9,800.00	7,123.33	9,993.43	7,297.34	67.19	67.42	93.37	-1,644.70	2,245.15	2,956.54	2,824.40	132.14	22.374	
9,900.00	7,123.65	10,093.43	7,297.95	69.59	69.78	93.38	-1,644.45	2,345.15	2,956.56	2,819.58	136.97	21.585	
10,000.00	7,123.96	10,193.43	7,298.56	71.99	72.15	93.39	-1,644.21	2,445.14	2,956.57	2,814.75	141.82	20.848	
10,100.00	7,124.27	10,293.43	7,299.18	74.40	74.53	93.39	-1,643.96	2,545.14	2,956.58	2,809.91	146.68	20.157	
10,200.00	7,124.58	10,393.43	7,299.79	76.82	76.92	93.40	-1,643.71	2,645.14	2,956.60	2,805.05	151.55	19.509	
10,300.00	7,124.89	10,493.43	7,300.40	79.25	79.32	93.40	-1,643.46	2,745.14	2,956.61	2,800.18	156.43	18.900	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 7H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,400.00	7,125.20	10,593.43	7,301.01	81.68	81.73	93.41	-1,643.21	2,845.13	2,956.63	2,795.31	161.32	18.327			
10,500.00	7,125.51	10,693.43	7,301.62	84.12	84.14	93.41	-1,642.96	2,945.13	2,956.64	2,790.42	166.23	17.787			
10,600.00	7,125.82	10,793.43	7,302.23	86.56	86.56	93.42	-1,642.72	3,045.13	2,956.66	2,785.52	171.14	17.277			
10,700.00	7,126.13	10,893.43	7,302.85	89.01	88.99	93.43	-1,642.47	3,145.13	2,956.67	2,780.62	176.05	16.794			
10,800.00	7,126.44	10,993.42	7,303.46	91.46	91.42	93.43	-1,642.22	3,245.12	2,956.69	2,775.71	180.98	16.337			
10,900.00	7,126.75	11,093.42	7,304.07	93.91	93.85	93.44	-1,641.97	3,345.12	2,956.70	2,770.79	185.91	15.904			
11,000.00	7,127.06	11,193.42	7,304.68	96.37	96.29	93.44	-1,641.72	3,445.12	2,956.72	2,765.87	190.85	15.492			
11,100.00	7,127.37	11,293.42	7,305.29	98.83	98.74	93.45	-1,641.47	3,545.11	2,956.74	2,760.94	195.79	15.101			
11,200.00	7,127.68	11,393.42	7,305.90	101.30	101.19	93.46	-1,641.22	3,645.11	2,956.75	2,756.01	200.74	14.729			
11,300.00	7,127.99	11,493.42	7,306.51	103.77	103.64	93.46	-1,640.98	3,745.11	2,956.77	2,751.07	205.69	14.375			
11,400.00	7,128.30	11,593.42	7,307.13	106.24	106.10	93.47	-1,640.73	3,845.11	2,956.78	2,746.13	210.65	14.036			
11,500.00	7,128.61	11,693.42	7,307.74	108.71	108.56	93.47	-1,640.48	3,945.10	2,956.80	2,741.18	215.61	13.713			
11,600.00	7,128.92	11,793.42	7,308.35	111.19	111.02	93.48	-1,640.23	4,045.10	2,956.81	2,736.23	220.58	13.405			
11,700.00	7,129.23	11,893.42	7,308.96	113.66	113.49	93.48	-1,639.98	4,145.10	2,956.83	2,731.28	225.55	13.110			
11,800.00	7,129.54	11,993.42	7,309.57	116.14	115.96	93.49	-1,639.73	4,245.10	2,956.84	2,726.32	230.52	12.827			
11,900.00	7,129.85	12,093.42	7,310.18	118.62	118.43	93.50	-1,639.49	4,345.09	2,956.86	2,721.36	235.49	12.556			
12,000.00	7,130.16	12,193.42	7,310.79	121.11	120.90	93.50	-1,639.24	4,445.09	2,956.87	2,716.40	240.47	12.296			
12,100.00	7,130.47	12,293.42	7,311.41	123.59	123.38	93.51	-1,638.99	4,545.09	2,956.89	2,711.44	245.45	12.047			
12,200.00	7,130.78	12,393.42	7,312.02	126.08	125.85	93.51	-1,638.74	4,645.09	2,956.90	2,706.47	250.44	11.807			
12,300.00	7,131.09	12,493.42	7,312.63	128.57	128.33	93.52	-1,638.49	4,745.08	2,956.92	2,701.50	255.42	11.577			
12,400.00	7,131.40	12,593.42	7,313.24	131.06	130.81	93.53	-1,638.24	4,845.08	2,956.94	2,696.52	260.41	11.355			
12,500.00	7,131.71	12,693.42	7,313.85	133.55	133.30	93.53	-1,637.99	4,945.08	2,956.95	2,691.55	265.40	11.141			
12,600.00	7,132.02	12,793.42	7,314.46	136.04	135.78	93.54	-1,637.75	5,045.08	2,956.97	2,686.57	270.39	10.936			
12,700.00	7,132.33	12,893.42	7,315.08	138.54	138.27	93.54	-1,637.50	5,145.07	2,956.98	2,681.59	275.39	10.738			
12,800.00	7,132.64	12,993.42	7,315.69	141.03	140.75	93.55	-1,637.25	5,245.07	2,957.00	2,676.61	280.38	10.546			
12,900.00	7,132.95	13,093.42	7,316.30	143.53	143.24	93.55	-1,637.00	5,345.07	2,957.01	2,671.63	285.38	10.362			
13,000.00	7,133.26	13,193.41	7,316.91	146.02	145.73	93.56	-1,636.75	5,445.06	2,957.03	2,666.65	290.38	10.183			
13,100.00	7,133.57	13,293.41	7,317.52	148.52	148.22	93.57	-1,636.50	5,545.06	2,957.05	2,661.66	295.38	10.011			
13,200.00	7,133.88	13,393.41	7,318.13	151.02	150.72	93.57	-1,636.26	5,645.06	2,957.06	2,656.68	300.38	9.844			
13,300.00	7,134.19	13,493.41	7,318.74	153.52	153.21	93.58	-1,636.01	5,745.06	2,957.08	2,651.69	305.39	9.683			
13,400.00	7,134.50	13,593.41	7,319.36	156.02	155.70	93.58	-1,635.76	5,845.05	2,957.09	2,646.70	310.39	9.527			
13,500.00	7,134.81	13,693.41	7,319.97	158.52	158.20	93.59	-1,635.51	5,945.05	2,957.11	2,641.71	315.40	9.376			
13,600.00	7,135.12	13,793.41	7,320.58	161.03	160.70	93.60	-1,635.26	6,045.05	2,957.12	2,636.72	320.41	9.229			
13,700.00	7,135.43	13,893.41	7,321.19	163.53	163.20	93.60	-1,635.01	6,145.05	2,957.14	2,631.73	325.41	9.087			
13,800.00	7,135.74	13,993.41	7,321.80	166.03	165.69	93.61	-1,634.76	6,245.04	2,957.16	2,626.73	330.42	8.950			
13,900.00	7,136.05	14,093.41	7,322.41	168.54	168.19	93.61	-1,634.52	6,345.04	2,957.17	2,621.74	335.43	8.816			
14,000.00	7,136.36	14,193.41	7,323.03	171.04	170.69	93.62	-1,634.27	6,445.04	2,957.19	2,616.74	340.45	8.686			
14,100.00	7,136.67	14,293.41	7,323.64	173.55	173.19	93.62	-1,634.02	6,545.04	2,957.20	2,611.75	345.46	8.560			
14,200.00	7,136.98	14,393.41	7,324.25	176.05	175.70	93.63	-1,633.77	6,645.03	2,957.22	2,606.75	350.47	8.438			
14,300.00	7,137.29	14,493.41	7,324.86	178.56	178.20	93.64	-1,633.52	6,745.03	2,957.24	2,601.75	355.49	8.319			
14,400.00	7,137.60	14,593.41	7,325.47	181.07	180.70	93.64	-1,633.27	6,845.03	2,957.25	2,596.75	360.50	8.203			
14,500.00	7,137.91	14,693.41	7,326.08	183.58	183.21	93.65	-1,633.02	6,945.03	2,957.27	2,591.75	365.52	8.091			
14,600.00	7,138.22	14,793.41	7,326.69	186.09	185.71	93.65	-1,632.78	7,045.02	2,957.29	2,586.75	370.53	7.981			
14,700.00	7,138.53	14,893.41	7,327.31	188.59	188.22	93.66	-1,632.53	7,145.02	2,957.30	2,581.75	375.55	7.875			
14,800.00	7,138.84	14,993.41	7,327.92	191.10	190.72	93.67	-1,632.28	7,245.02	2,957.32	2,576.75	380.57	7.771			
14,900.00	7,139.15	15,093.41	7,328.53	193.61	193.23	93.67	-1,632.03	7,345.01	2,957.33	2,571.75	385.59	7.670			
15,000.00	7,139.46	15,193.41	7,329.14	196.13	195.73	93.68	-1,631.78	7,445.01	2,957.35	2,566.74	390.61	7.571			
15,100.00	7,139.77	15,293.41	7,329.75	198.64	198.24	93.68	-1,631.53	7,545.01	2,957.37	2,561.74	395.63	7.475			
15,200.00	7,140.08	15,393.40	7,330.36	201.15	200.75	93.69	-1,631.29	7,645.01	2,957.38	2,556.74	400.65	7.382			
15,300.00	7,140.39	15,493.40	7,330.97	203.66	203.26	93.69	-1,631.04	7,745.00	2,957.40	2,551.73	405.67	7.290			
15,400.00	7,140.70	15,593.40	7,331.59	206.17	205.77	93.70	-1,630.79	7,845.00	2,957.42	2,546.73	410.69	7.201			
15,500.00	7,141.01	15,693.40	7,332.20	208.68	208.28	93.71	-1,630.54	7,945.00	2,957.43	2,541.72	415.71	7.114			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 7H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Between Centres (usft)	Between Ellipses (usft)					
15,600.00	7,141.32	15,793.40	7,332.81	211.20	210.79	93.71	-1,630.29	8,045.00	2,957.45	2,536.72	420.73	7.029	
15,700.00	7,141.63	15,893.40	7,333.42	213.71	213.30	93.72	-1,630.04	8,144.99	2,957.47	2,531.71	425.75	6.946	
15,800.00	7,141.94	15,993.40	7,334.03	216.22	215.81	93.72	-1,629.79	8,244.99	2,957.48	2,526.71	430.78	6.865	
15,900.00	7,142.25	16,093.40	7,334.64	218.74	218.32	93.73	-1,629.55	8,344.99	2,957.50	2,521.70	435.80	6.786	
16,000.00	7,142.56	16,193.40	7,335.26	221.25	220.83	93.74	-1,629.30	8,444.99	2,957.52	2,516.69	440.83	6.709	
16,100.00	7,142.87	16,293.40	7,335.87	223.77	223.34	93.74	-1,629.05	8,544.98	2,957.53	2,511.68	445.85	6.633	
16,200.00	7,143.18	16,393.40	7,336.48	226.28	225.85	93.75	-1,628.80	8,644.98	2,957.55	2,506.68	450.87	6.560	
16,300.00	7,143.49	16,493.40	7,337.09	228.80	228.36	93.75	-1,628.55	8,744.98	2,957.57	2,501.67	455.90	6.487	
16,400.00	7,143.80	16,593.40	7,337.70	231.31	230.88	93.76	-1,628.30	8,844.98	2,957.58	2,496.66	460.93	6.417	
16,500.00	7,144.11	16,693.40	7,338.31	233.83	233.39	93.76	-1,628.06	8,944.97	2,957.60	2,491.65	465.95	6.347	
16,600.00	7,144.42	16,793.40	7,338.92	236.34	235.90	93.77	-1,627.81	9,044.97	2,957.62	2,486.64	470.98	6.280	
16,700.00	7,144.73	16,893.40	7,339.54	238.86	238.42	93.78	-1,627.56	9,144.97	2,957.63	2,481.63	476.00	6.213	
16,748.84	7,144.89	16,942.24	7,339.83	240.09	239.65	93.78	-1,627.44	9,193.81	2,957.64	2,478.89	478.75	6.178	
16,800.00	7,145.05	16,969.28	7,340.00	241.37	240.32	93.78	-1,627.37	9,220.85	2,957.75	2,477.19	480.56	6.155	
16,900.00	7,145.36	16,969.28	7,340.00	243.89	240.32	93.78	-1,627.37	9,220.85	2,960.27	2,476.63	483.64	6.121	
17,000.00	7,145.67	16,969.28	7,340.00	246.41	240.32	93.78	-1,627.37	9,220.85	2,966.16	2,479.44	486.73	6.094	
17,100.00	7,145.98	16,969.28	7,340.00	248.93	240.32	93.78	-1,627.37	9,220.85	2,975.41	2,485.60	489.81	6.075	
17,200.00	7,146.29	16,969.28	7,340.00	251.44	240.32	93.78	-1,627.37	9,220.85	2,987.97	2,495.08	492.89	6.062	
17,300.00	7,146.60	16,969.28	7,340.00	253.96	240.32	93.78	-1,627.37	9,220.85	3,003.81	2,507.84	495.97	6.056 SF	
17,400.00	7,146.91	16,969.28	7,340.00	256.48	240.32	93.78	-1,627.37	9,220.85	3,022.88	2,523.83	499.06	6.057	
17,430.36	7,147.00	16,969.28	7,340.00	257.24	240.32	93.78	-1,627.37	9,220.85	3,029.30	2,529.31	499.99	6.059	



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 8H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft) +E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	3.00	0.00	0.00	-160.18	-131.71	-47.47	140.04					
100.00	100.00	97.00	100.00	0.08	0.08	-160.18	-131.71	-47.47	140.00	139.84	0.17	843.159		
200.00	200.00	197.00	200.00	0.31	0.30	-160.18	-131.71	-47.47	140.00	139.39	0.61	229.002		
300.00	300.00	297.00	300.00	0.53	0.53	-160.18	-131.71	-47.47	140.00	138.94	1.06	131.967		
400.00	400.00	397.00	400.00	0.76	0.75	-160.18	-131.71	-47.47	140.00	138.49	1.51	92.691		
500.00	500.00	497.00	500.00	0.98	0.98	-160.18	-131.71	-47.47	140.00	138.04	1.96	71.432		
600.00	600.00	597.00	600.00	1.21	1.20	-160.18	-131.71	-47.47	140.00	137.59	2.41	58.105		
700.00	700.00	697.00	700.00	1.43	1.43	-160.18	-131.71	-47.47	140.00	137.14	2.86	48.969		
800.00	800.00	797.00	800.00	1.66	1.65	-160.18	-131.71	-47.47	140.00	136.69	3.31	42.316	CC, ES	
900.00	900.00	892.48	895.47	1.88	1.84	-160.26	-133.17	-47.80	141.56	137.83	3.72	38.031		
1,000.00	1,000.00	987.62	990.49	2.11	2.01	-160.48	-137.70	-48.81	146.41	142.29	4.12	35.553		
1,100.00	1,099.98	1,082.20	1,084.74	2.33	2.20	-137.50	-145.26	-50.51	155.82	151.30	4.52	34.474		
1,200.00	1,199.84	1,175.61	1,177.54	2.56	2.40	-138.81	-155.70	-52.84	171.11	166.18	4.93	34.714		
1,300.00	1,299.45	1,267.32	1,268.25	2.79	2.63	-140.48	-168.82	-55.78	192.32	186.97	5.34	35.985		
1,400.00	1,398.70	1,356.81	1,356.31	3.03	2.89	-142.24	-184.35	-59.26	219.46	213.70	5.77	38.063		
1,500.00	1,497.47	1,443.65	1,441.25	3.30	3.18	-143.90	-201.97	-63.21	252.48	246.29	6.19	40.769		
1,600.00	1,595.62	1,527.42	1,522.63	3.61	3.50	-145.36	-221.35	-67.55	291.22	284.59	6.63	43.954		
1,700.00	1,693.06	1,607.82	1,600.16	3.95	3.84	-146.58	-242.12	-72.20	335.47	328.40	7.06	47.491		
1,800.00	1,789.64	1,684.56	1,673.57	4.35	4.21	-147.56	-263.92	-77.08	384.97	377.46	7.51	51.261		
1,900.00	1,885.30	1,757.49	1,742.77	4.80	4.59	-148.45	-286.40	-82.12	439.37	431.40	7.97	55.129		
2,000.00	1,980.64	1,827.61	1,808.71	5.29	4.99	-149.59	-309.64	-87.32	496.75	488.29	8.46	58.748		
2,100.00	2,075.99	1,900.00	1,876.17	5.80	5.43	-150.51	-335.27	-93.06	556.20	547.24	8.96	62.098		
2,200.00	2,171.34	1,960.95	1,932.43	6.33	5.84	-151.12	-358.13	-98.18	617.51	608.06	9.45	65.370		
2,300.00	2,266.68	2,024.26	1,990.33	6.87	6.27	-151.63	-383.12	-103.78	680.63	670.68	9.95	68.417		
2,400.00	2,362.03	2,085.39	2,045.70	7.41	6.72	-152.03	-408.42	-109.44	745.42	734.96	10.45	71.310		
2,500.00	2,457.38	2,144.42	2,098.61	7.97	7.18	-152.34	-433.94	-115.16	811.77	800.81	10.96	74.060		
2,600.00	2,552.72	2,200.00	2,147.94	8.53	7.62	-152.58	-458.93	-120.76	879.62	868.15	11.47	76.720		
2,700.00	2,648.07	2,266.00	2,205.98	9.10	8.18	-152.80	-489.59	-127.62	948.65	936.65	12.00	79.038		
2,800.00	2,743.42	2,338.15	2,269.37	9.67	8.79	-153.02	-523.22	-135.16	1,017.84	1,005.28	12.56	81.050		
2,900.00	2,838.77	2,410.31	2,332.76	10.24	9.41	-153.20	-556.85	-142.69	1,087.03	1,073.92	13.12	82.862		
3,000.00	2,934.11	2,482.46	2,396.15	10.82	10.04	-153.36	-590.48	-150.22	1,156.23	1,142.55	13.69	84.488		
3,100.00	3,029.46	2,554.61	2,459.54	11.40	10.67	-153.51	-624.11	-157.75	1,225.44	1,211.18	14.26	85.956		
3,200.00	3,124.81	2,626.77	2,522.94	11.98	11.30	-153.64	-657.74	-165.28	1,294.64	1,279.81	14.83	87.288		
3,300.00	3,220.15	2,698.92	2,586.33	12.56	11.93	-153.75	-691.37	-172.82	1,363.85	1,348.44	15.41	88.501		
3,400.00	3,315.50	2,771.08	2,649.72	13.14	12.57	-153.86	-725.00	-180.35	1,433.07	1,417.07	15.99	89.603		
3,500.00	3,410.85	2,843.23	2,713.11	13.73	13.21	-153.96	-758.63	-187.88	1,502.28	1,485.70	16.58	90.612		
3,600.00	3,506.19	2,915.38	2,776.50	14.32	13.85	-154.04	-792.26	-195.41	1,571.50	1,554.33	17.17	91.539		
3,700.00	3,601.54	2,987.54	2,839.89	14.91	14.49	-154.12	-825.89	-202.95	1,640.72	1,622.96	17.76	92.391		
3,800.00	3,696.89	3,059.69	2,903.29	15.50	15.14	-154.20	-859.52	-210.48	1,709.94	1,691.58	18.35	93.176		
3,900.00	3,792.24	3,131.85	2,966.68	16.09	15.78	-154.26	-893.15	-218.01	1,779.16	1,760.21	18.95	93.902		
4,000.00	3,887.58	3,204.00	3,030.07	16.68	16.43	-154.33	-926.78	-225.54	1,848.38	1,828.84	19.54	94.576		
4,100.00	3,982.93	3,276.15	3,093.46	17.27	17.08	-154.38	-960.41	-233.07	1,917.60	1,897.46	20.14	95.200		
4,200.00	4,078.28	3,348.31	3,156.85	17.86	17.72	-154.44	-994.04	-240.61	1,986.83	1,966.09	20.74	95.781		
4,300.00	4,173.62	3,420.46	3,220.24	18.45	18.37	-154.49	-1,027.67	-248.14	2,056.05	2,034.71	21.35	96.324		
4,400.00	4,268.97	3,492.62	3,283.63	19.05	19.02	-154.53	-1,061.30	-255.67	2,125.28	2,103.33	21.95	96.831		
4,500.00	4,364.32	3,564.77	3,347.03	19.64	19.67	-154.58	-1,094.93	-263.20	2,194.51	2,171.95	22.55	97.305		
4,600.00	4,459.67	3,636.92	3,410.42	20.23	20.32	-154.62	-1,128.56	-270.73	2,263.73	2,240.58	23.16	97.750		
4,700.00	4,555.01	3,709.08	3,473.81	20.83	20.97	-154.66	-1,162.19	-278.27	2,332.96	2,309.20	23.76	98.168		
4,800.00	4,650.36	3,781.23	3,537.20	21.42	21.62	-154.70	-1,195.82	-285.80	2,402.19	2,377.82	24.37	98.561		
4,900.00	4,745.71	3,853.39	3,600.59	22.02	22.27	-154.73	-1,229.45	-293.33	2,471.42	2,446.44	24.98	98.932		
5,000.00	4,841.05	3,925.54	3,663.98	22.61	22.92	-154.76	-1,263.08	-300.86	2,540.65	2,515.06	25.59	99.281		
5,100.00	4,936.40	3,997.69	3,727.38	23.21	23.58	-154.79	-1,296.71	-308.39	2,609.88	2,583.68	26.20	99.612		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 8H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,031.75	4,069.85	3,790.77	23.80	24.23	-154.82	-1,330.34	-315.93	2,679.11	2,652.30	26.81	99.924		
5,300.00	5,127.09	4,142.00	3,854.16	24.40	24.88	-154.85	-1,363.97	-323.46	2,748.34	2,720.92	27.42	100.220		
5,400.00	5,222.44	4,214.15	3,917.55	25.00	25.53	-154.88	-1,397.60	-330.99	2,817.57	2,789.54	28.04	100.501		
5,500.00	5,317.79	4,286.31	3,980.94	25.59	26.19	-154.90	-1,431.23	-338.52	2,886.80	2,858.16	28.65	100.768		
5,600.00	5,413.14	4,358.46	4,044.33	26.19	26.84	-154.93	-1,464.86	-346.05	2,956.04	2,926.77	29.26	101.021		
5,700.00	5,508.48	4,430.62	4,107.73	26.78	27.49	-154.96	-1,498.49	-353.59	3,025.27	2,995.39	29.88	101.252		
5,800.00	5,604.35	4,503.89	4,172.10	27.24	28.16	-155.74	-1,532.64	-361.24	3,093.31	3,062.63	30.68	100.829		
5,900.00	5,701.15	4,579.28	4,238.34	27.65	28.84	-156.41	-1,567.78	-369.11	3,158.99	3,127.52	31.47	100.382		
6,000.00	5,798.77	4,656.69	4,306.35	28.02	29.54	-157.00	-1,603.86	-377.19	3,222.22	3,189.98	32.24	99.934		
6,100.00	5,897.08	4,736.04	4,376.06	28.35	30.26	-157.50	-1,640.84	-385.47	3,282.94	3,249.95	32.99	99.499		
6,200.00	5,995.98	4,817.21	4,447.37	28.63	31.00	-157.92	-1,678.67	-393.94	3,341.07	3,307.35	33.72	99.089		
6,300.00	6,095.33	4,900.12	4,520.22	28.87	31.75	-158.28	-1,717.32	-402.60	3,396.55	3,362.14	34.41	98.711		
6,400.00	6,195.01	4,984.67	4,594.49	29.06	32.52	-158.58	-1,756.72	-411.42	3,449.32	3,414.26	35.06	98.370		
6,500.00	6,294.91	5,070.74	4,670.11	29.20	33.30	-158.82	-1,796.84	-420.41	3,499.33	3,463.65	35.68	98.071		
6,600.00	6,394.89	5,158.16	4,746.91	29.30	34.09	86.61	-1,837.58	-429.53	3,546.59	3,510.30	36.29	97.739		
6,700.00	6,494.28	5,244.38	4,822.67	29.34	34.87	82.86	-1,877.77	-438.54	3,592.45	3,555.38	37.08	96.894		
6,800.00	6,591.26	5,332.16	4,900.25	29.31	35.64	89.63	-2,311.52	-502.53	3,611.56	3,570.57	40.99	88.107		
6,900.00	6,683.95	5,420.07	4,974.41	29.23	36.42	89.65	-2,311.43	-467.23	3,611.56	3,570.77	40.79	88.539		
7,000.00	6,770.55	5,507.12	5,048.11	29.09	37.20	89.67	-2,311.32	-420.00	3,611.55	3,571.02	40.53	89.116		
7,100.00	6,859.36	5,594.37	5,122.81	28.92	37.98	89.70	-2,311.17	-361.64	3,611.54	3,571.25	40.29	89.629		
7,200.00	6,948.18	5,681.62	5,197.51	28.73	38.76	89.73	-2,311.01	-293.11	3,611.53	3,571.31	40.22	89.804		
7,300.00	7,037.00	5,768.88	5,272.21	28.54	39.54	89.77	-2,310.82	-215.56	3,611.52	3,571.10	40.42	89.345		
7,400.00	7,125.82	5,856.13	5,346.91	28.35	40.32	89.79	-2,310.61	-130.44	3,611.51	3,570.50	41.01	88.055		
7,500.00	7,214.64	5,943.38	5,421.61	28.19	41.10	89.83	-2,310.39	-42.41	3,611.50	3,569.43	42.07	85.838		
7,600.00	7,303.46	6,030.63	5,496.31	28.06	41.88	89.88	-2,310.16	51.08	3,611.50	3,567.86	43.63	82.770		
7,700.00	7,392.28	6,117.88	5,569.41	27.97	42.66	89.93	-2,309.92	148.43	3,611.49	3,565.82	45.67	79.078		
7,800.00	7,481.10	6,205.13	5,642.51	28.00	43.44	89.97	-2,309.68	247.88	3,611.48	3,563.37	48.11	75.063		
7,900.00	7,569.92	6,292.38	5,715.61	28.26	44.22	89.97	-2,309.43	347.88	3,611.48	3,560.53	50.95	70.889		
8,000.00	7,658.74	6,379.63	5,788.71	28.94	45.00	89.97	-2,309.18	447.88	3,611.48	3,557.38	54.09	66.763		
8,100.00	7,747.56	6,466.88	5,861.81	30.16	45.78	89.97	-2,308.93	547.88	3,611.47	3,553.96	57.52	62.789		
8,200.00	7,836.38	6,554.13	5,934.91	31.76	46.56	89.98	-2,308.68	647.87	3,611.47	3,550.30	61.17	59.041		
8,300.00	7,925.20	6,641.38	6,008.01	33.58	47.34	89.98	-2,308.43	747.87	3,611.47	3,546.46	65.01	55.551		
8,400.00	8,014.02	6,728.63	6,081.11	35.53	48.12	89.98	-2,308.19	847.87	3,611.47	3,542.45	69.01	52.332		
8,500.00	8,102.84	6,815.88	6,154.21	37.56	48.90	89.98	-2,307.94	947.87	3,611.46	3,538.32	73.14	49.376		
8,600.00	8,191.66	6,903.13	6,227.31	39.66	49.68	89.98	-2,307.69	1,047.87	3,611.46	3,534.07	77.38	46.669		
8,700.00	8,280.48	6,990.38	6,300.41	41.80	50.46	89.99	-2,307.44	1,147.87	3,611.46	3,529.74	81.72	44.193		
8,800.00	8,369.30	7,077.63	6,373.51	43.99	51.24	89.99	-2,307.19	1,247.87	3,611.45	3,525.32	86.13	41.928		
8,900.00	8,458.12	7,164.88	6,446.61	46.22	52.02	89.99	-2,306.94	1,347.87	3,611.45	3,520.83	90.62	39.854		
9,000.00	8,546.94	7,252.13	6,519.71	48.47	52.80	89.99	-2,306.69	1,447.86	3,611.45	3,516.29	95.16	37.953		
9,100.00	8,635.76	7,339.38	6,592.81	50.75	53.58	90.00	-2,306.45	1,547.86	3,611.44	3,511.70	99.75	36.206		
9,200.00	8,724.58	7,426.63	6,665.91	53.05	54.36	90.00	-2,306.20	1,647.86	3,611.44	3,507.06	104.38	34.599		
9,300.00	8,813.40	7,513.88	6,739.01	55.37	55.14	90.00	-2,305.95	1,747.86	3,611.44	3,502.39	109.05	33.117		
9,400.00	8,902.22	7,601.13	6,812.11	57.71	55.92	90.00	-2,305.70	1,847.86	3,611.43	3,497.68	113.75	31.748		
9,500.00	8,991.04	7,688.38	6,885.21	60.06	56.70	90.00	-2,305.45	1,947.86	3,611.43	3,492.94	118.49	30.479		
9,600.00	9,079.86	7,775.63	6,958.31	62.43	57.48	90.01	-2,305.20	2,047.86	3,611.43	3,488.18	123.25	29.303		
9,700.00	9,168.68	7,862.88	7,031.41	64.80	58.26	90.01	-2,304.95	2,147.85	3,611.43	3,483.40	128.03	28.208		
9,800.00	9,257.50	7,950.13	7,104.51	67.19	59.04	90.01	-2,304.71	2,247.85	3,611.42	3,478.59	132.83	27.188		
9,900.00	9,346.32	8,037.38	7,177.61	69.59	59.82	90.01	-2,304.46	2,347.85	3,611.42	3,473.77	137.65	26.236		
10,000.00	9,435.14	8,124.63	7,250.71	71.99	60.60	90.01	-2,304.21	2,447.85	3,611.42	3,468.93	142.49	25.346		
10,100.00	9,523.96	8,211.88	7,323.81	74.40	61.38	90.02	-2,303.96	2,547.85	3,611.41	3,464.08	147.34	24.511		
10,200.00	9,612.78	8,299.13	7,396.91	76.82	62.16	90.02	-2,303.71	2,647.85	3,611.41	3,459.21	152.20	23.728		
10,300.00	9,701.60	8,386.38	7,470.01	79.25	62.94	90.02	-2,303.46	2,747.85	3,611.41	3,454.33	157.08	22.991		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design NEBU 604 Pad - NEBU 604 COM 8H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: O-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,125.20	10,673.76	7,126.65	81.68	84.04	90.02	-2,303.21	2,847.84	3,611.40	3,449.44	161.97	22.297		
10,500.00	7,125.51	10,773.76	7,127.09	84.12	86.38	90.03	-2,302.97	2,947.84	3,611.40	3,444.54	166.87	21.643		
10,600.00	7,125.82	10,873.76	7,127.54	86.56	88.73	90.03	-2,302.72	3,047.84	3,611.40	3,439.63	171.77	21.024		
10,700.00	7,126.13	10,973.76	7,127.98	89.01	91.08	90.03	-2,302.47	3,147.84	3,611.40	3,434.71	176.69	20.439		
10,800.00	7,126.44	11,073.76	7,128.43	91.46	93.45	90.03	-2,302.22	3,247.84	3,611.39	3,429.78	181.61	19.885		
10,900.00	7,126.75	11,173.76	7,128.87	93.91	95.83	90.03	-2,301.97	3,347.84	3,611.39	3,424.85	186.54	19.360		
11,000.00	7,127.06	11,273.76	7,129.32	96.37	98.21	90.04	-2,301.72	3,447.84	3,611.39	3,419.91	191.48	18.860		
11,100.00	7,127.37	11,373.76	7,129.76	98.83	100.60	90.04	-2,301.47	3,547.83	3,611.38	3,414.96	196.42	18.386		
11,200.00	7,127.68	11,473.76	7,130.21	101.30	103.00	90.04	-2,301.23	3,647.83	3,611.38	3,410.01	201.37	17.934		
11,300.00	7,127.99	11,573.76	7,130.65	103.77	105.41	90.04	-2,300.98	3,747.83	3,611.38	3,405.05	206.32	17.503		
11,400.00	7,128.30	11,673.76	7,131.09	106.24	107.82	90.04	-2,300.73	3,847.83	3,611.38	3,400.09	211.28	17.093		
11,500.00	7,128.61	11,773.76	7,131.54	108.71	110.24	90.05	-2,300.48	3,947.83	3,611.37	3,395.13	216.25	16.700		
11,600.00	7,128.92	11,873.75	7,131.98	111.19	112.66	90.05	-2,300.23	4,047.83	3,611.37	3,390.16	221.21	16.325		
11,700.00	7,129.23	11,973.75	7,132.43	113.66	115.08	90.05	-2,299.98	4,147.83	3,611.37	3,385.18	226.18	15.966		
11,800.00	7,129.54	12,073.75	7,132.87	116.14	117.52	90.05	-2,299.73	4,247.82	3,611.36	3,380.20	231.16	15.623		
11,900.00	7,129.85	12,173.75	7,133.32	118.62	119.95	90.06	-2,299.49	4,347.82	3,611.36	3,375.22	236.14	15.293		
12,000.00	7,130.16	12,273.75	7,133.76	121.11	122.39	90.06	-2,299.24	4,447.82	3,611.36	3,370.24	241.12	14.977		
12,100.00	7,130.47	12,373.75	7,134.21	123.59	124.83	90.06	-2,298.99	4,547.82	3,611.35	3,365.25	246.10	14.674		
12,200.00	7,130.78	12,473.75	7,134.65	126.08	127.28	90.06	-2,298.74	4,647.82	3,611.35	3,360.26	251.09	14.383		
12,300.00	7,131.09	12,573.75	7,135.10	128.57	129.73	90.06	-2,298.49	4,747.82	3,611.35	3,355.27	256.08	14.102		
12,400.00	7,131.40	12,673.75	7,135.54	131.06	132.18	90.07	-2,298.24	4,847.82	3,611.35	3,350.27	261.07	13.833		
12,500.00	7,131.71	12,773.75	7,135.99	133.55	134.64	90.07	-2,297.99	4,947.82	3,611.34	3,345.27	266.07	13.573		
12,600.00	7,132.02	12,873.75	7,136.43	136.04	137.09	90.07	-2,297.75	5,047.81	3,611.34	3,340.27	271.07	13.323		
12,700.00	7,132.33	12,973.75	7,136.88	138.54	139.55	90.07	-2,297.50	5,147.81	3,611.34	3,335.27	276.07	13.081		
12,800.00	7,132.64	13,073.75	7,137.32	141.03	142.02	90.07	-2,297.25	5,247.81	3,611.33	3,330.27	281.07	12.849		
12,900.00	7,132.95	13,173.75	7,137.77	143.53	144.48	90.08	-2,297.00	5,347.81	3,611.33	3,325.26	286.07	12.624		
13,000.00	7,133.26	13,273.75	7,138.21	146.02	146.95	90.08	-2,296.75	5,447.81	3,611.33	3,320.25	291.08	12.407		
13,100.00	7,133.57	13,373.75	7,138.66	148.52	149.42	90.08	-2,296.50	5,547.81	3,611.33	3,315.24	296.08	12.197		
13,200.00	7,133.88	13,473.75	7,139.10	151.02	151.89	90.08	-2,296.25	5,647.81	3,611.32	3,310.23	301.09	11.994		
13,300.00	7,134.19	13,573.75	7,139.55	153.52	154.36	90.08	-2,296.01	5,747.80	3,611.32	3,305.22	306.10	11.798		
13,400.00	7,134.50	13,673.75	7,139.99	156.02	156.84	90.09	-2,295.76	5,847.80	3,611.32	3,300.21	311.11	11.608		
13,500.00	7,134.81	13,773.75	7,140.44	158.52	159.32	90.09	-2,295.51	5,947.80	3,611.31	3,295.19	316.13	11.424		
13,600.00	7,135.12	13,873.75	7,140.88	161.03	161.79	90.09	-2,295.26	6,047.80	3,611.31	3,290.17	321.14	11.245		
13,700.00	7,135.43	13,973.75	7,141.32	163.53	164.27	90.09	-2,295.01	6,147.80	3,611.31	3,285.15	326.15	11.072		
13,800.00	7,135.74	14,073.75	7,141.77	166.03	166.76	90.10	-2,294.76	6,247.80	3,611.31	3,280.13	331.17	10.905		
13,900.00	7,136.05	14,173.75	7,142.21	168.54	169.24	90.10	-2,294.52	6,347.80	3,611.30	3,275.11	336.19	10.742		
14,000.00	7,136.36	14,273.75	7,142.66	171.04	171.72	90.10	-2,294.27	6,447.79	3,611.30	3,270.09	341.21	10.584		
14,100.00	7,136.67	14,373.75	7,143.10	173.55	174.21	90.10	-2,294.02	6,547.79	3,611.30	3,265.07	346.23	10.430		
14,200.00	7,136.98	14,473.75	7,143.55	176.05	176.69	90.10	-2,293.77	6,647.79	3,611.30	3,260.05	351.25	10.281		
14,300.00	7,137.29	14,573.75	7,143.99	178.56	179.18	90.11	-2,293.52	6,747.79	3,611.29	3,255.02	356.27	10.136		
14,400.00	7,137.60	14,673.75	7,144.44	181.07	181.67	90.11	-2,293.27	6,847.79	3,611.29	3,249.99	361.29	9.995		
14,500.00	7,137.91	14,773.75	7,144.88	183.58	184.16	90.11	-2,293.02	6,947.79	3,611.29	3,244.97	366.32	9.858		
14,600.00	7,138.22	14,873.75	7,145.33	186.09	186.65	90.11	-2,292.77	7,047.79	3,611.28	3,239.94	371.34	9.725		
14,700.00	7,138.53	14,973.75	7,145.77	188.59	189.14	90.11	-2,292.53	7,147.78	3,611.28	3,234.91	376.37	9.595		
14,800.00	7,138.84	15,073.75	7,146.22	191.10	191.64	90.12	-2,292.28	7,247.78	3,611.28	3,229.88	381.40	9.469		
14,900.00	7,139.15	15,173.75	7,146.66	193.61	194.13	90.12	-2,292.03	7,347.78	3,611.28	3,224.85	386.42	9.345		
15,000.00	7,139.46	15,273.75	7,147.11	196.13	196.62	90.12	-2,291.78	7,447.78	3,611.27	3,219.82	391.45	9.225		
15,100.00	7,139.77	15,373.75	7,147.55	198.64	199.12	90.12	-2,291.53	7,547.78	3,611.27	3,214.79	396.48	9.108		
15,200.00	7,140.08	15,473.75	7,148.00	201.15	201.61	90.13	-2,291.28	7,647.78	3,611.27	3,209.76	401.51	8.994		
15,300.00	7,140.39	15,573.75	7,148.44	203.66	204.11	90.13	-2,291.04	7,747.78	3,611.26	3,204.73	406.54	8.883		
15,400.00	7,140.70	15,673.75	7,148.89	206.17	206.61	90.13	-2,290.79	7,847.78	3,611.26	3,199.69	411.57	8.774		
15,500.00	7,141.01	15,773.75	7,149.33	208.68	209.11	90.13	-2,290.54	7,947.77	3,611.26	3,194.66	416.60	8.668		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

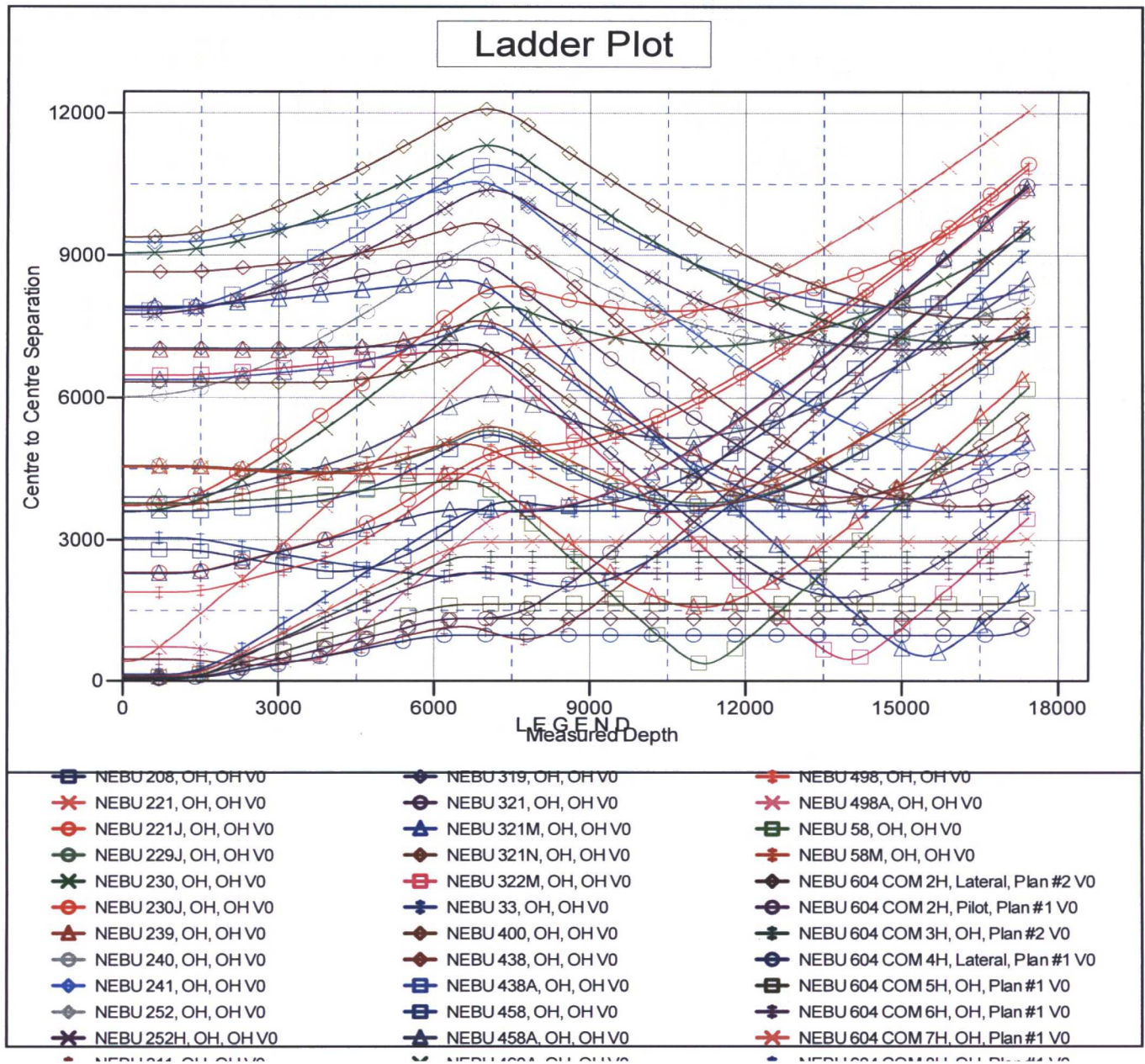
Offset Design NEBU 604 Pad - NEBU 604 COM 8H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SDI MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,600.00	7,141.32	15,873.75	7,149.78	211.20	211.61	90.13	-2,290.29	8,047.77	3,611.26	3,189.62	421.63	8.565		
15,700.00	7,141.63	15,973.75	7,150.22	213.71	214.11	90.14	-2,290.04	8,147.77	3,611.25	3,184.59	426.66	8.464		
15,800.00	7,141.94	16,073.75	7,150.66	216.22	216.61	90.14	-2,289.79	8,247.77	3,611.25	3,179.55	431.70	8.365		
15,900.00	7,142.25	16,173.75	7,151.11	218.74	219.11	90.14	-2,289.54	8,347.77	3,611.25	3,174.52	436.73	8.269		
16,000.00	7,142.56	16,273.75	7,151.55	221.25	221.61	90.14	-2,289.30	8,447.77	3,611.25	3,169.48	441.76	8.175		
16,100.00	7,142.87	16,373.75	7,152.00	223.77	224.11	90.14	-2,289.05	8,547.77	3,611.24	3,164.44	446.80	8.082		
16,200.00	7,143.18	16,473.75	7,152.44	226.28	226.61	90.15	-2,288.80	8,647.76	3,611.24	3,159.41	451.83	7.992		
16,300.00	7,143.49	16,573.75	7,152.89	228.80	229.12	90.15	-2,288.55	8,747.76	3,611.24	3,154.37	456.87	7.904		
16,400.00	7,143.80	16,673.75	7,153.33	231.31	231.62	90.15	-2,288.30	8,847.76	3,611.24	3,149.33	461.90	7.818		
16,500.00	7,144.11	16,773.75	7,153.78	233.83	234.13	90.15	-2,288.05	8,947.76	3,611.23	3,144.29	466.94	7.734		
16,600.00	7,144.42	16,873.75	7,154.22	236.34	236.63	90.16	-2,287.80	9,047.76	3,611.23	3,139.25	471.98	7.651		
16,700.00	7,144.73	16,973.75	7,154.67	238.86	239.14	90.16	-2,287.56	9,147.76	3,611.23	3,134.21	477.01	7.570		
16,760.74	7,144.92	17,034.49	7,154.94	240.39	240.66	90.16	-2,287.40	9,208.50	3,611.23	3,130.93	480.30	7.519		
16,800.00	7,145.05	17,048.46	7,155.00	241.37	241.01	90.16	-2,287.37	9,222.47	3,611.31	3,129.75	481.56	7.499		
16,900.00	7,145.36	17,048.46	7,155.00	243.89	241.01	90.16	-2,287.37	9,222.47	3,613.39	3,128.75	484.65	7.456		
17,000.00	7,145.67	17,048.46	7,155.00	246.41	241.01	90.16	-2,287.37	9,222.47	3,618.24	3,130.50	487.74	7.418		
17,100.00	7,145.98	17,048.46	7,155.00	248.93	241.01	90.16	-2,287.37	9,222.47	3,625.84	3,135.01	490.82	7.387		
17,200.00	7,146.29	17,048.46	7,155.00	251.44	241.01	90.16	-2,287.37	9,222.47	3,636.17	3,142.26	493.91	7.362		
17,300.00	7,146.60	17,048.46	7,155.00	253.96	241.01	90.16	-2,287.37	9,222.47	3,649.22	3,152.21	497.00	7.342		
17,400.00	7,146.91	17,048.46	7,155.00	256.48	241.01	90.16	-2,287.37	9,222.47	3,664.94	3,164.85	500.09	7.329		
17,430.36	7,147.00	17,048.46	7,155.00	257.24	241.01	90.16	-2,287.37	9,222.47	3,670.24	3,169.22	501.03	7.325 SF		



Company:	B.P.	Local Co-ordinate Reference:	Well NEBU 604 COM 1H
Project:	San Juan County, NM NAD83	TVD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Reference Site:	NEBU 604 Pad	MD Reference:	GL 6500' & RKB 25' @ 6525.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	NEBU 604 COM 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Grand Junction District
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to GL 6500' & RKB 25' @ 6525.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -107.8333334

Coordinates are relative to: NEBU 604 COM 1H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.18°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Company: B.P.
Project: San Juan County, NM NAD83
Reference Site: NEBU 604 Pad
Site Error: 0.00 usft
Reference Well: NEBU 604 COM 1H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Plan #2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Output errors are at
Database:
Offset TVD Reference:

Well NEBU 604 COM 1H
GL 6500' & RKB 25' @ 6525.00usft
GL 6500' & RKB 25' @ 6525.00usft
Grid
Minimum Curvature
2.00 sigma
Grand Junction District
Reference Datum

Reference Depths are relative to GL 6500' & RKB 25' @ 6525.00usft

Offset Depths are relative to Offset Datum

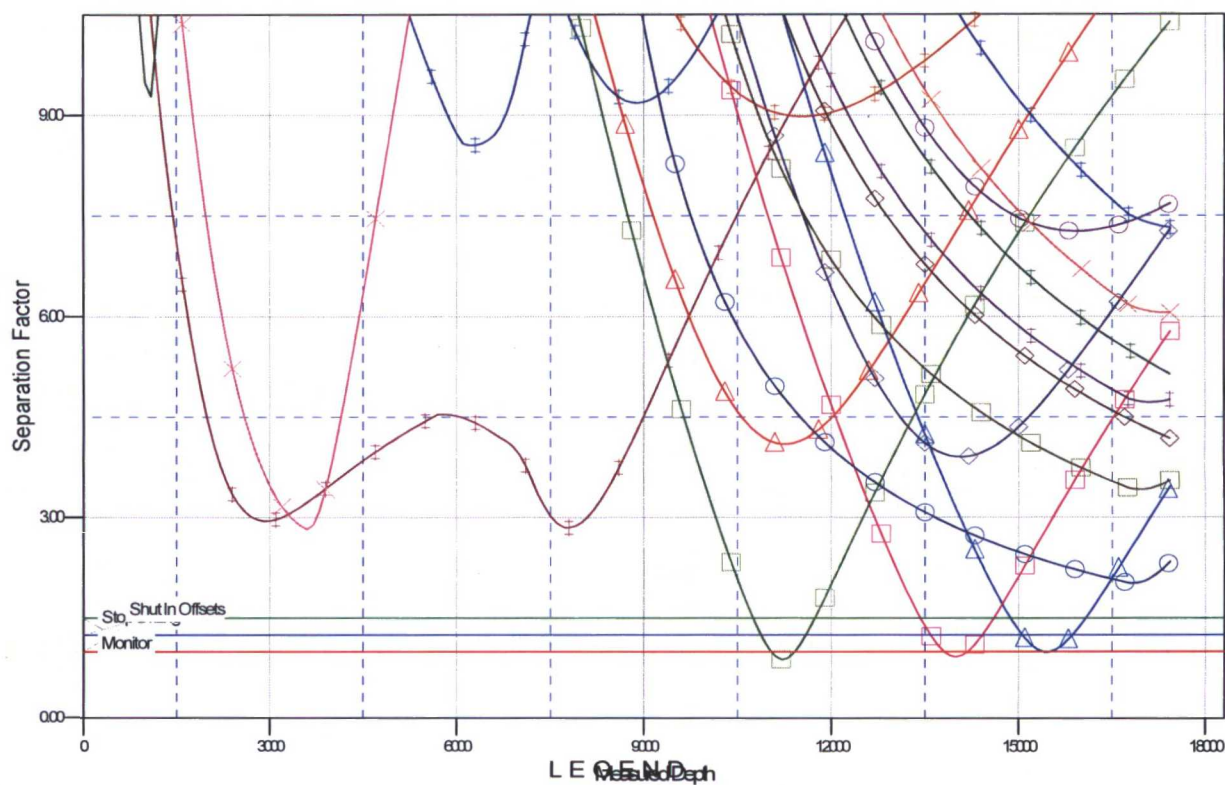
Central Meridian is -107.8333334

Coordinates are relative to: NEBU 604 COM 1H

Coordinate System is US State Plane 1983, New Mexico Western Zone

Grid Convergence at Surface is: 0.18°

Separation Factor Plot



- | | | |
|----------------------|----------------------|--------------------------------------|
| NEBU 208, OH, OH V0 | NEBU 319, OH, OH V0 | NEBU 498, OH, OH V0 |
| NEBU 221, OH, OH V0 | NEBU 321, OH, OH V0 | NEBU 498A, OH, OH V0 |
| NEBU 221J, OH, OH V0 | NEBU 321M, OH, OH V0 | NEBU 58, OH, OH V0 |
| NEBU 229J, OH, OH V0 | NEBU 321N, OH, OH V0 | NEBU 58M, OH, OH V0 |
| NEBU 230, OH, OH V0 | NEBU 322M, OH, OH V0 | NEBU 604 COM 2H, Lateral, Plan #2 V0 |
| NEBU 230J, OH, OH V0 | NEBU 33, OH, OH V0 | NEBU 604 COM 2H, Pilot, Plan #1 V0 |
| NEBU 239, OH, OH V0 | NEBU 400, OH, OH V0 | NEBU 604 COM 3H, OH, Plan #2 V0 |
| NEBU 240, OH, OH V0 | NEBU 438, OH, OH V0 | NEBU 604 COM 4H, Lateral, Plan #1 V0 |
| NEBU 241, OH, OH V0 | NEBU 438A, OH, OH V0 | NEBU 604 COM 5H, OH, Plan #1 V0 |
| NEBU 252, OH, OH V0 | NEBU 458, OH, OH V0 | NEBU 604 COM 6H, OH, Plan #1 V0 |
| NEBU 252H, OH, OH V0 | NEBU 458A, OH, OH V0 | NEBU 604 COM 7H, OH, Plan #1 V0 |
| NEBU 254, OH, OH V0 | NEBU 458A, OH, OH V0 | NEBU 604 COM 8H, OH, Plan #1 V0 |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation