



B.P.

**La Plata County, CO NAD83
Bonifacio Gallegos Pad
Bonifacio Gallegos A3**

OH

Design: OH

Standard Survey Report

19 June, 2015



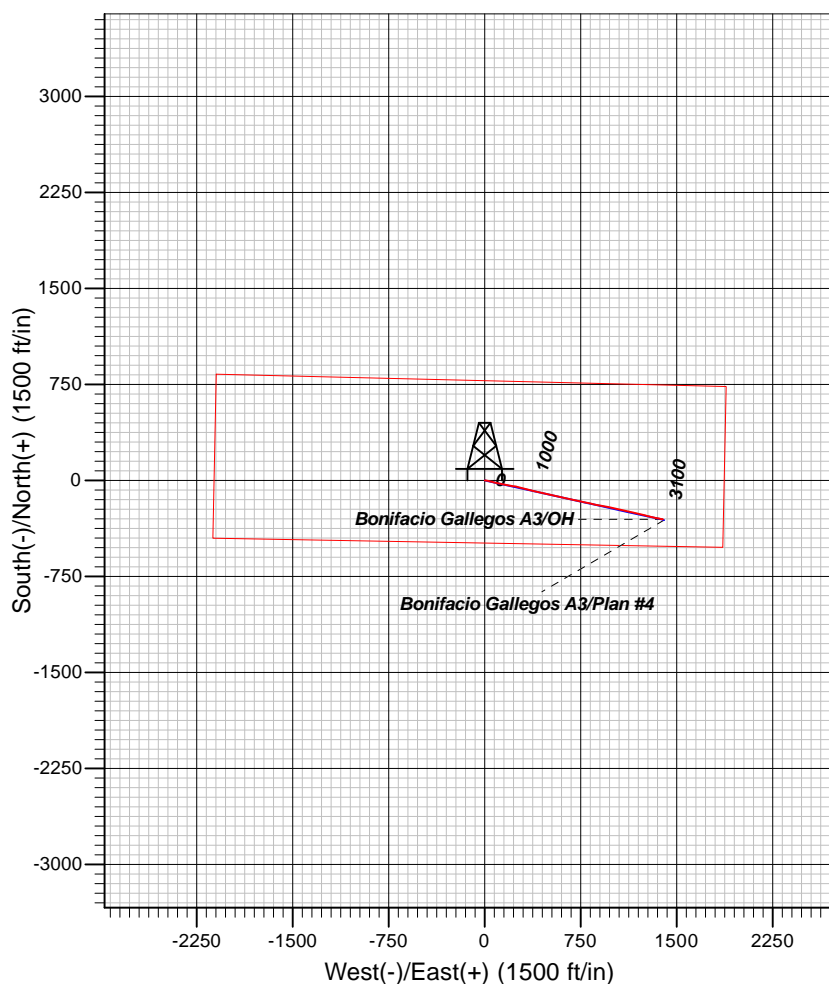
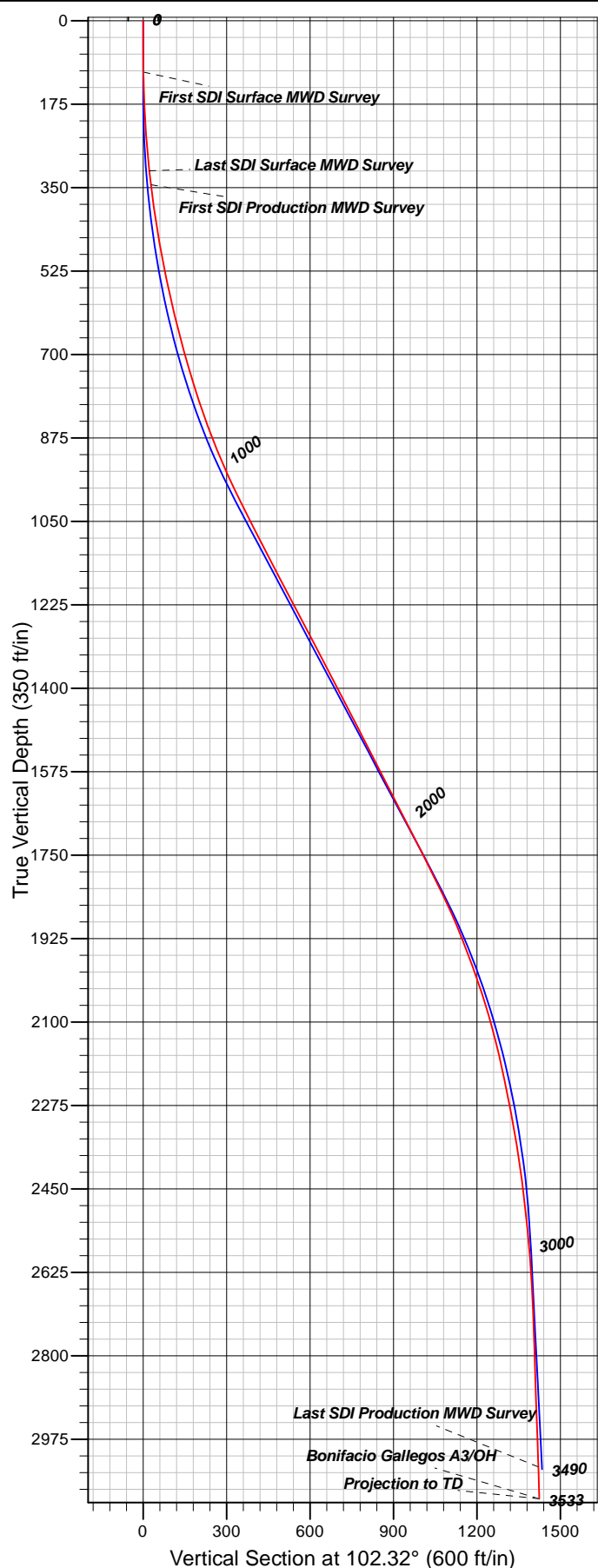
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Company: B.P.
Project: La Plata County, CO NAD83
Site: Bonifacio Gallegos Pad
Well: Bonifacio Gallegos A3
Wellbore: OH
Design: OH



Well Details: Bonifacio Gallegos A3

+N/-S	+E/-W	TVD Reference: GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)	North	East	Level: 6634.00	Slot
0.00	0.00	1175837.31	2362701.92	37.1290923	-107.6861408	

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Bonifacio Gallegos A3, Grid North
Vertical (TVD) Reference: GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Calculation Method: Minimum Curvature

PROJECT DETAILS: La Plata County, CO NAD83

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Southern Zone

System Datum: Mean Sea Level

Plan: OH

11:11, June 19 2015
Created By: Janie Collins



Company:	B.P.	Local Co-ordinate Reference:	Well Bonifacio Gallegos A3
Project:	La Plata County, CO NAD83	TVD Reference:	GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Site:	Bonifacio Gallegos Pad	MD Reference:	GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Well:	Bonifacio Gallegos A3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	La Plata County, CO NAD83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Southern Zone		

Site	Bonifacio Gallegos Pad			
Site Position:		Northing:	1,175,837.31 usft	Latitude: 37.1290922
From:	Lat/Long	Easting:	2,362,701.92 usft	Longitude: -107.6861408
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: -1.34 °

Well	Bonifacio Gallegos A3			
Well Position	+N/-S	0.00 ft	Northing:	1,175,837.31 usft
	+E/-W	0.00 ft	Easting:	2,362,701.92 usft
Position Uncertainty	0.00 ft		Wellhead Elevation:	0.00 ft
			Ground Level:	6,634.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/8/2015	9.33	63.70	50,342

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	102.32

Survey Program	Date	6/19/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
108.00	316.00	Survey #1 - Surface MWD Survey (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
346.00	3,533.01	Survey #2 - Production MWD Survey (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
108.00	1.08	94.38	107.99	-0.08	1.01	1.01	1.00	1.00	0.00
First SDI Surface MWD Survey									
138.00	2.40	91.56	137.98	-0.12	1.92	1.91	4.41	4.40	-9.40
167.00	4.07	93.34	166.93	-0.19	3.56	3.52	5.77	5.76	6.14
198.00	5.36	94.26	197.83	-0.36	6.10	6.04	4.17	4.16	2.97
227.00	6.65	96.33	226.67	-0.65	9.12	9.05	4.51	4.45	7.14
256.00	7.69	98.84	255.44	-1.13	12.71	12.66	3.74	3.59	8.66
285.00	8.82	101.34	284.14	-1.87	16.80	16.82	4.09	3.90	8.62
316.00	10.48	102.54	314.70	-2.95	21.89	22.01	5.39	5.35	3.87



Company:	B.P.	Local Co-ordinate Reference:	Well Bonifacio Gallegos A3
Project:	La Plata County, CO NAD83	TVD Reference:	GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Site:	Bonifacio Gallegos Pad	MD Reference:	GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Well:	Bonifacio Gallegos A3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Last SDI Surface MWD Survey									
346.00	12.07	102.20	344.12	-4.20	27.62	27.88	5.30	5.30	-1.13
First SDI Production MWD Survey									
418.00	14.64	102.53	414.17	-7.77	43.86	44.51	3.57	3.57	0.46
449.00	15.63	102.93	444.09	-9.55	51.75	52.60	3.21	3.19	1.29
480.00	16.66	104.30	473.87	-11.59	60.13	61.22	3.54	3.32	4.42
511.00	17.93	104.71	503.47	-13.90	69.05	70.43	4.12	4.10	1.32
541.00	19.06	104.64	531.92	-16.31	78.26	79.94	3.77	3.77	-0.23
571.00	20.45	103.65	560.15	-18.78	88.09	90.07	4.77	4.63	-3.30
602.00	21.84	103.35	589.06	-21.39	98.96	101.25	4.50	4.48	-0.97
632.00	23.33	103.03	616.76	-24.02	110.18	112.77	4.98	4.97	-1.07
662.00	24.12	101.20	644.23	-26.55	121.98	124.84	3.60	2.63	-6.10
693.00	24.62	100.39	672.46	-28.94	134.55	137.63	1.94	1.61	-2.61
723.00	25.24	100.15	699.67	-31.20	146.99	150.26	2.09	2.07	-0.80
754.00	26.36	100.18	727.58	-33.58	160.27	163.75	3.61	3.61	0.10
785.00	27.52	100.13	755.21	-36.05	174.10	177.78	3.74	3.74	-0.16
816.00	28.84	100.06	782.54	-38.62	188.51	192.41	4.26	4.26	-0.23
846.00	29.87	100.34	808.69	-41.23	202.98	207.10	3.46	3.43	0.93
877.00	31.57	99.55	835.34	-43.96	218.58	222.93	5.64	5.48	-2.55
908.00	32.99	99.68	861.54	-46.72	234.90	239.46	4.59	4.58	0.42
939.00	34.48	100.78	887.32	-49.78	251.84	256.67	5.19	4.81	3.55
970.00	35.53	102.61	912.72	-53.39	269.25	274.45	4.79	3.39	5.90
1,002.00	36.85	103.57	938.54	-57.67	287.66	293.34	4.49	4.12	3.00
1,034.00	38.50	105.16	963.87	-62.53	306.60	312.88	5.98	5.16	4.97
1,066.00	40.16	105.39	988.62	-67.87	326.16	333.14	5.21	5.19	0.72
1,097.00	40.88	105.09	1,012.19	-73.17	345.60	353.25	2.41	2.32	-0.97
1,128.00	40.46	104.90	1,035.70	-78.39	365.11	373.43	1.41	-1.35	-0.61
1,160.00	40.85	104.33	1,059.98	-83.65	385.28	394.26	1.68	1.22	-1.78
1,191.00	41.65	103.81	1,083.28	-88.62	405.11	414.69	2.81	2.58	-1.68
1,223.00	41.39	103.49	1,107.24	-93.63	425.72	435.90	1.05	-0.81	-1.00
1,254.00	41.70	103.32	1,130.44	-98.40	445.72	456.45	1.06	1.00	-0.55
1,286.00	41.35	103.24	1,154.40	-103.27	466.37	477.67	1.11	-1.09	-0.25
1,317.00	41.54	102.73	1,177.64	-107.88	486.36	498.18	1.25	0.61	-1.65
1,348.00	42.42	102.19	1,200.68	-112.35	506.61	518.92	3.07	2.84	-1.74
1,379.00	42.02	102.00	1,223.64	-116.72	526.98	539.75	1.35	-1.29	-0.61
1,411.00	42.10	101.76	1,247.40	-121.13	547.96	561.18	0.56	0.25	-0.75
1,442.00	42.88	102.76	1,270.26	-125.58	568.42	582.12	3.33	2.52	3.23
1,474.00	42.34	102.28	1,293.81	-130.27	589.57	603.79	1.97	-1.69	-1.50
1,505.00	41.58	101.49	1,316.86	-134.54	609.85	624.51	2.99	-2.45	-2.55
1,536.00	41.55	100.87	1,340.06	-138.53	630.03	645.08	1.33	-0.10	-2.00
1,567.00	41.82	101.23	1,363.21	-142.48	650.26	665.69	1.16	0.87	1.16
1,599.00	41.57	101.40	1,387.10	-146.66	671.13	686.97	0.86	-0.78	0.53
1,631.00	41.90	102.55	1,410.98	-151.08	691.97	708.27	2.61	1.03	3.59



Company:	B.P.	Local Co-ordinate Reference:	Well Bonifacio Gallegos A3
Project:	La Plata County, CO NAD83	TVD Reference:	GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Site:	Bonifacio Gallegos Pad	MD Reference:	GL 6634' & RKB 11' @ 6645.00ft (Aztec 507)
Well:	Bonifacio Gallegos A3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,662.00	41.41	102.57	1,434.14	-155.56	712.08	728.87	1.58	-1.58	0.06	
1,692.00	41.42	102.96	1,456.64	-159.94	731.44	748.72	0.86	0.03	1.30	
1,724.00	41.46	103.62	1,480.63	-164.81	752.05	769.89	1.37	0.12	2.06	
1,756.00	41.20	102.33	1,504.66	-169.56	772.64	791.02	2.78	-0.81	-4.03	
1,787.00	41.40	102.37	1,527.95	-173.93	792.63	811.48	0.65	0.65	0.13	
1,819.00	41.38	101.41	1,551.96	-178.29	813.33	832.64	1.98	-0.06	-3.00	
1,850.00	41.47	102.50	1,575.20	-182.54	833.39	853.15	2.34	0.29	3.52	
1,882.00	41.72	102.89	1,599.13	-187.21	854.12	874.39	1.12	0.78	1.22	
1,914.00	41.31	101.03	1,623.10	-191.61	874.87	895.60	4.06	-1.28	-5.81	
1,946.00	41.13	101.34	1,647.16	-195.70	895.55	916.68	0.85	-0.56	0.97	
1,977.00	41.06	102.24	1,670.53	-199.86	915.50	937.06	1.92	-0.23	2.90	
2,008.00	40.99	100.88	1,693.92	-203.94	935.43	957.40	2.89	-0.23	-4.39	
2,038.00	40.89	101.00	1,716.58	-207.67	954.73	977.06	0.42	-0.33	0.40	
2,070.00	41.07	100.53	1,740.74	-211.59	975.35	998.03	1.12	0.56	-1.47	
2,102.00	40.89	100.61	1,764.89	-215.44	995.98	1,019.01	0.59	-0.56	0.25	
2,133.00	41.03	100.37	1,788.30	-219.14	1,015.96	1,039.32	0.68	0.45	-0.77	
2,164.00	40.76	100.33	1,811.74	-222.78	1,035.92	1,059.60	0.88	-0.87	-0.13	
2,195.00	39.12	101.48	1,835.50	-226.55	1,055.47	1,079.50	5.80	-5.29	3.71	
2,227.00	37.84	102.51	1,860.55	-230.68	1,074.94	1,099.41	4.47	-4.00	3.22	
2,258.00	36.39	103.43	1,885.27	-234.88	1,093.17	1,118.11	5.01	-4.68	2.97	
2,290.00	34.94	104.73	1,911.27	-239.41	1,111.27	1,136.76	5.11	-4.53	4.06	
2,321.00	33.80	104.76	1,936.86	-243.87	1,128.19	1,154.24	3.68	-3.68	0.10	
2,352.00	32.46	105.22	1,962.82	-248.25	1,144.56	1,171.17	4.40	-4.32	1.48	
2,383.00	31.74	104.28	1,989.08	-252.44	1,160.49	1,187.63	2.83	-2.32	-3.03	
2,415.00	30.49	103.23	2,016.48	-256.38	1,176.55	1,204.16	4.26	-3.91	-3.28	
2,447.00	29.05	101.69	2,044.25	-259.81	1,192.06	1,220.04	5.09	-4.50	-4.81	
2,477.01	27.38	101.12	2,070.69	-262.62	1,205.96	1,234.22	5.64	-5.57	-1.90	
2,509.01	25.32	101.90	2,099.36	-265.45	1,219.88	1,248.43	6.53	-6.44	2.44	
2,541.01	23.88	103.44	2,128.46	-268.36	1,232.88	1,261.75	4.93	-4.50	4.81	
2,572.01	22.51	104.45	2,156.95	-271.30	1,244.73	1,273.95	4.60	-4.42	3.26	
2,603.01	21.19	104.01	2,185.72	-274.14	1,255.91	1,285.48	4.29	-4.26	-1.42	
2,635.01	20.03	103.57	2,215.67	-276.83	1,266.85	1,296.74	3.66	-3.62	-1.37	
2,666.01	19.09	104.20	2,244.88	-279.31	1,276.92	1,307.11	3.11	-3.03	2.03	
2,698.01	18.35	104.08	2,275.19	-281.82	1,286.88	1,317.38	2.32	-2.31	-0.37	
2,730.01	17.63	104.32	2,305.63	-284.25	1,296.46	1,327.26	2.26	-2.25	0.75	
2,761.01	16.53	104.45	2,335.26	-286.51	1,305.28	1,336.36	3.55	-3.55	0.42	
2,792.01	15.47	103.85	2,365.06	-288.60	1,313.57	1,344.90	3.46	-3.42	-1.94	
2,820.01	14.35	101.66	2,392.12	-290.19	1,320.59	1,352.10	4.48	-4.00	-7.82	
2,850.01	13.22	98.83	2,421.25	-291.47	1,327.62	1,359.24	4.39	-3.77	-9.43	
2,881.01	11.87	98.48	2,451.51	-292.49	1,334.28	1,365.96	4.36	-4.35	-1.13	
2,912.01	10.55	101.23	2,481.92	-293.51	1,340.22	1,371.98	4.59	-4.26	8.87	
2,944.01	10.09	103.83	2,513.40	-294.75	1,345.81	1,377.71	2.05	-1.44	8.12	
2,975.01	9.40	102.81	2,543.95	-295.96	1,350.92	1,382.96	2.29	-2.23	-3.29	
3,007.01	8.46	105.00	2,575.57	-297.15	1,355.74	1,387.92	3.12	-2.94	6.84	



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Well:	Bonifacio Gallegos A3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,038.01	7.45	95.96	2,606.27	-297.95	1,359.94	1,392.20	5.18	-3.26	-29.16	
3,069.01	5.95	97.74	2,637.06	-298.37	1,363.53	1,395.80	4.88	-4.84	5.74	
3,101.01	4.85	102.93	2,668.91	-298.90	1,366.49	1,398.80	3.76	-3.44	16.22	
3,132.01	4.23	104.15	2,699.82	-299.47	1,368.88	1,401.26	2.02	-2.00	3.94	
3,163.01	3.84	103.06	2,730.74	-299.99	1,371.00	1,403.44	1.28	-1.26	-3.52	
3,195.01	3.49	98.15	2,762.67	-300.37	1,373.01	1,405.48	1.47	-1.09	-15.34	
3,226.01	3.08	103.57	2,793.62	-300.70	1,374.75	1,407.25	1.66	-1.32	17.48	
3,258.01	2.59	97.60	2,825.58	-300.99	1,376.30	1,408.83	1.79	-1.53	-18.66	
3,289.01	2.39	105.21	2,856.55	-301.26	1,377.62	1,410.18	1.25	-0.65	24.55	
3,321.01	3.23	106.06	2,888.52	-301.68	1,379.13	1,411.74	2.63	2.62	2.66	
3,352.01	4.17	104.47	2,919.45	-302.20	1,381.06	1,413.74	3.05	3.03	-5.13	
3,384.01	4.23	100.53	2,951.37	-302.71	1,383.35	1,416.08	0.92	0.19	-12.31	
3,415.01	3.72	98.78	2,982.29	-303.07	1,385.47	1,418.23	1.69	-1.65	-5.65	
3,446.01	3.07	100.98	3,013.24	-303.38	1,387.28	1,420.06	2.14	-2.10	7.10	
3,466.00	2.54	95.84	3,033.21	-303.53	1,388.24	1,421.04	2.93	-2.65	-25.70	
Last SDI Production MWD Survey										
3,466.01	2.54	95.84	3,033.21	-303.53	1,388.24	1,421.04	2.93	-2.59	-31.01	
3,533.00	2.54	95.84	3,100.14	-303.83	1,391.20	1,423.99	0.00	0.00	0.00	
Projection to TD										
3,533.01	2.54	95.84	3,100.15	-303.83	1,391.20	1,423.99	0.01	0.00	0.00	

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
108.00	107.99	-0.08	1.01	First SDI Surface MWD Survey
316.00	314.70	-2.95	21.89	Last SDI Surface MWD Survey
346.00	344.12	-4.20	27.62	First SDI Production MWD Survey
3,466.00	3,033.21	-303.53	1,388.24	Last SDI Production MWD Survey
3,533.00	3,100.14	-303.83	1,391.20	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



JOB NO.:	330615DEF286989	Report Time:	2400	1 of 4
COMPANY:	B.P.	API JOB #	05 067 09930 00	
LOCATION:	SEC 2 T33N R8W	WORK ORDER#	286989	
RIG NAME:	Aztec 507	FIELD:	San Juan Basin	
STATE:	Colorado	Township:	33N	
COUNTY:	La Plata	SECT\	2	8W
WELL NAME:	Gallegos Bonafacio A 3			

From Monday, June 08, 2015 at 0000 to Monday, June 08, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	106.00	Rotary Hours	3.25	WOB	22	Pick UP	25	Slack Off	25	SPM	
End Depth	403.00	Circulating Hours	0.75	RAB	25	SPP	1300	FlowRate	0 - 558	200	
Total Drilled:	297.00	Avg. Total ROP:	66.00	Mud Data							
Total Rotary Drilled:	184.00	Avg. Rotary ROP:	56.62	Type	Spud			PV	15	SOLID	2.6
Total Drilled Sliding:	113.00	Avg. Slide ROP:	90.40	Weight	9	GAS	0	YP	20	BHT°	95
Slide Hours:	1.25	Percent Rotary:	61.95	Viscosity	80	SAND	0.5	PH	8.2	Flow T°	90
Below Rotary Hrs.	24.00	Percent Slide:	38.05	Chlorides	900	WL	8			Oil %	0
PERSONNEL				cASING					BHA		
Lead Directional :	David Hensley			Size	Lb/ft	Set Depth		BHA # 2:12 1/4 JZ, B-S, 1.75 FBH 12" STB 7:8 3.0, 12" Stabilizer, 6 1/2 NMPC, 6 1/2 HOS, 6 1/2 NMDC, 6 1/2 GAP SUB, 6 1/2 NMDC,			
Second Directional :	Doug Tanner			8 5/8	24	392					
MWD Operator1	Kyle Temple			Signature:							
MWD Operator2	Mike Willms										
Directional Company:	SDI										
Geologist:											
Company Man:	Mike Starnes										
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Jun-15	00:00	07:45	7.75	0	0	Other	Rigging up
8-Jun-15	07:45	08:00	0.25	0	0	Change BHA	P/U NOV Straight motor
8-Jun-15	08:00	09:45	1.75	106	106	Drilling	Drilling - (WOB:15;GPM :351;RPM:40)
8-Jun-15	09:45	10:00	0.25	106	106	Circulating	Circulating
8-Jun-15	10:00	12:15	2.25	106	106	Change BHA	Trip F/ BHA # 2
8-Jun-15	12:15	12:30	0.25	106	121	Sliding	Sliding - (WOB:15;GPM :351;TFO:102))
8-Jun-15	12:30	12:40	0.17	121	136	Drilling	Drilling - (WOB:15;GPM :351;RPM:40)
8-Jun-15	12:40	12:45	0.08	136	136	Connection	Connection
8-Jun-15	12:45	12:55	0.17	136	149	Sliding	Sliding - (WOB:15;GPM :351;TFO:102))
8-Jun-15	12:55	13:00	0.08	149	165	Drilling	Drilling - (WOB:15;GPM :351;RPM:40)
8-Jun-15	13:00	13:05	0.08	165	165	Survey & Conn.	Survey & Conn.@108' Inc 1.08° Azm 94.38°
8-Jun-15	13:05	13:10	0.08	165	177	Sliding	Sliding - (WOB:15;GPM :351;TFO:102))
8-Jun-15	13:10	13:20	0.17	177	195	Drilling	Drilling - (WOB:15;GPM :351;RPM:40)
8-Jun-15	13:20	13:25	0.08	195	195	Survey & Conn.	Survey & Conn.@138' Inc 2.4° Azm 91.56°
8-Jun-15	13:25	13:35	0.17	195	205	Sliding	Sliding - (WOB:15;GPM :351;TFO:135))
8-Jun-15	13:35	13:55	0.33	205	224	Drilling	Drilling - (WOB:15;GPM :558;RPM:40)
8-Jun-15	13:55	14:00	0.08	224	224	Survey & Conn.	Survey & Conn.@167' Inc 4.07° Azm 93.34°
8-Jun-15	14:00	14:05	0.08	224	231	Sliding	Sliding - (WOB:15;GPM :558;TFO:135))
8-Jun-15	14:05	14:15	0.17	231	255	Drilling	Drilling - (WOB:15;GPM :558;RPM:40)
8-Jun-15	14:15	14:20	0.08	255	255	Survey & Conn.	Survey & Conn.@198' Inc 5.36° Azm 94.26°
8-Jun-15	14:20	14:30	0.17	255	265	Sliding	Sliding - (WOB:15;GPM :558;TFO:30))

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Jun-15	14:30	14:40	0.17	265	284	Drilling	Drilling - (WOB:15;GPM :558;RPM:40)
8-Jun-15	14:40	14:45	0.08	284	284	Survey & Conn.	Survey & Conn.@227' Inc 6.65° Azm 96.33°
8-Jun-15	14:45	14:50	0.08	284	294	Sliding	Sliding - (WOB:15;GPM :558;TFO:30))
8-Jun-15	14:50	14:55	0.08	294	313	Drilling	Drilling - (WOB:20;GPM :558;RPM:40)
8-Jun-15	14:55	15:00	0.08	313	313	Survey & Conn.	Survey & Conn.@256' Inc 7.69° Azm 98.84°
8-Jun-15	15:00	15:05	0.08	313	323	Sliding	Sliding - (WOB:15;GPM :558;TFO:15))
8-Jun-15	15:05	15:15	0.17	323	342	Drilling	Drilling - (WOB:15;GPM :558;RPM:40)
8-Jun-15	15:15	15:20	0.08	342	342	Survey & Conn.	Survey & Conn.@285' Inc 8.82° Azm 101.34°
8-Jun-15	15:20	15:25	0.08	342	353	Sliding	Sliding - (WOB:15;GPM :558;TFO:15)
8-Jun-15	15:25	15:30	0.08	353	373	Drilling	Drilling - (WOB:20;GPM :558;RPM:40)
8-Jun-15	15:30	15:35	0.08	373	373	Survey & Conn.	Survey & Conn.@316' Inc 10.48° Azm 102.54°
8-Jun-15	15:35	15:40	0.08	373	388	Sliding	Sliding - (WOB:22;GPM :558;TFO:15))
8-Jun-15	15:40	15:45	0.08	388	403	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
8-Jun-15	15:45	15:50	0.08	403	403	Survey & Conn.	Survey & Conn.@346' Inc 12.07° Azm 102.2°
8-Jun-15	15:50	16:20	0.50	403	403	Circulating	Circulating
8-Jun-15	16:20	18:00	1.67	403	403	POOH	POOH Down directional tools
8-Jun-15	18:00	24:00	6.00	403	403	Other	Perform 8 5/8 CSG Operations



JOB NO.:	330615DEF286989	Report Time:	2400	2 of 4
COMPANY:	B.P.	API JOB #	05 067 09930 00	
LOCATION:	SEC 2 T33N R8W	WORK ORDER#	286989	
RIG NAME:	Aztec 507	FIELD:	San Juan Basin	
STATE:	Colorado	Township:	33N	
COUNTY:	La Plata	SECTION:	2	8W
WELL NAME:	Gallegos Bonafacio A 3			

From Tuesday, June 09, 2015 at 0000 to Tuesday, June 09, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	403.00	Rotary Hours	4.02	WOB	22	Pick UP	62	Slack Off	48	SPM	
End Depth	1698.00	Circulating Hours	1.08	RAB	56	SPP	1550	FlowRate	348 - 558	200	
Total Drilled:	1295.00	Avg. Total ROP:	209.43	Mud Data							
Total Rotary Drilled:	888.00	Avg. Rotary ROP:	221.08	Type	Spud			PV	8	SOLID	4.7
Total Drilled Sliding:	407.00	Avg. Slide ROP:	187.85	Weight	9	GAS	0	YP	17	BHT°	95
Slide Hours:	2.17	Percent Rotary:	68.57	Viscosity	35	SAND	0.5	PH	8.4	Flow T°	90
Below Rotary Hrs.	14.00	Percent Slide:	31.43	Chlorides	1000	WL	9			Oil %	0
PERSONNEL				cASING					BHA		
Lead Directional :	David Hensley			Size	Lb/ft	Set Depth		BHA # 3:7 7/8 DS616M-V1 PDC w/ 4x12 2x13, 6 1/2 Motor 7/8 3.3 FBH 1.5, 6 1/2 NMPC, 6 1/2 NMPC, 6 1/2 HOS, 6 1/2 NMDC, 6 1/2 GAP SUB, 6 1/2 NMDC,			
Second Directional :	Doug Tanner			8 5/8	24	392					
MWD Operator1	Kyle Temple			Signature:							
MWD Operator2	Mike Willms										
Directional Company:	SDI										
Geologist:											
Company Man:	Mike Starnes										
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Jun-15	00:00	10:00	10.00	403	403	N/U BOPS	N/U BOPS & TEST
9-Jun-15	10:00	11:40	1.67	403	403	Change BHA	P/U M/U 6" Directional Tools BHA # 3
9-Jun-15	11:40	11:45	0.08	403	403	Circulating	Test Motor
9-Jun-15	11:45	12:05	0.33	403	403	TIH	TIH
9-Jun-15	12:05	12:30	0.42	403	403	Other	Fix Leaks rotate rubber
9-Jun-15	12:30	13:30	1.00	403	403	Circulating	C/O FC,CMT, Thru Shoe T/ 403'
9-Jun-15	13:30	13:45	0.25	403	424	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	13:45	13:50	0.08	424	424	Connection	Connection
9-Jun-15	13:50	14:00	0.17	424	434	Sliding	Sliding - (WOB:22;GPM :558;TFO:15))
9-Jun-15	14:00	14:10	0.17	434	454	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	14:10	14:15	0.08	454	454	Connection	Connection
9-Jun-15	14:15	14:20	0.08	454	464	Sliding	Sliding - (WOB:22;GPM :558;TFO:15)
9-Jun-15	14:20	14:25	0.08	464	485	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	14:25	14:30	0.08	485	485	Survey & Conn.	Survey & Conn.@418' Inc 14.64° Azm 102.53°
9-Jun-15	14:30	14:35	0.08	485	497	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	14:35	14:40	0.08	497	516	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	14:40	14:45	0.08	516	516	Survey & Conn.	Survey & Conn.@449' Inc 15.63° Azm 102.93°
9-Jun-15	14:45	14:50	0.08	516	531	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)
9-Jun-15	14:50	14:55	0.08	531	547	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	14:55	15:00	0.08	547	547	Survey & Conn.	Survey & Conn.@480' Inc 16.66° Azm 104.3°
9-Jun-15	15:00	15:05	0.08	547	562	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Jun-15	15:05	15:10	0.08	562	578	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	15:10	15:15	0.08	578	578	Survey & Conn.	Survey & Conn.@511' Inc 17.93° Azm 104.71°
9-Jun-15	15:15	15:20	0.08	578	593	Sliding	Sliding - (WOB:22;GPM :558;TFO:-15))
9-Jun-15	15:20	15:25	0.08	593	608	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	15:25	15:30	0.08	608	608	Survey & Conn.	Survey & Conn.@541' Inc 19.06° Azm 104.64°
9-Jun-15	15:30	15:33	0.05	608	623	Sliding	Sliding - (WOB:22;GPM :558;TFO:-15))
9-Jun-15	15:33	15:36	0.05	623	638	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	15:36	15:40	0.07	638	638	Survey & Conn.	Survey & Conn.@571' Inc 20.45° Azm 103.65°
9-Jun-15	15:40	15:42	0.03	638	652	Sliding	Sliding - (WOB:22;GPM :558;TFO:-15)
9-Jun-15	15:42	15:45	0.05	652	669	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	15:45	15:50	0.08	669	669	Survey & Conn.	Survey & Conn.@602' Inc 21.84° Azm 103.35°
9-Jun-15	15:50	15:52	0.03	669	682	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	15:52	15:55	0.05	682	699	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	15:55	16:00	0.08	699	699	Survey & Conn.	Survey & Conn.@632' Inc 23.33° Azm 103.03°
9-Jun-15	16:00	16:02	0.03	699	711	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)
9-Jun-15	16:02	16:08	0.10	711	729	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	16:08	16:14	0.10	729	729	Survey & Conn.	Survey & Conn.@662' Inc 24.12° Azm 101.2°
9-Jun-15	16:14	16:16	0.03	729	743	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)
9-Jun-15	16:16	16:20	0.07	743	760	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	16:32	16:35	0.05	776	790	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	16:35	16:43	0.13	790	790	Survey & Conn.	Survey & Conn.@723' Inc 25.24° Azm 100.15°
9-Jun-15	16:43	16:46	0.05	790	806	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	16:46	16:49	0.05	806	821	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	16:49	16:54	0.08	821	821	Survey & Conn.	Survey & Conn.@754' Inc 26.36° Azm 100.18°
9-Jun-15	16:54	16:58	0.07	821	837	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	16:58	17:02	0.07	837	852	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	17:02	17:07	0.08	852	852	Survey & Conn.	Survey & Conn.@785' Inc 27.52° Azm 100.13°
9-Jun-15	17:07	17:12	0.08	852	870	Sliding	Sliding - (WOB:22;GPM :558;TFO:25R))
9-Jun-15	17:12	17:15	0.05	870	883	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	17:15	17:21	0.10	883	883	Survey & Conn.	Survey & Conn.@816' Inc 28.84° Azm 100.06°
9-Jun-15	17:21	17:30	0.15	883	900	Sliding	Sliding - (WOB:22;GPM :558;TFO:10R)
9-Jun-15	17:30	17:34	0.07	900	913	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	17:34	17:40	0.10	913	913	Survey & Conn.	Survey & Conn.@846' Inc 29.87° Azm 100.34°
9-Jun-15	17:40	17:45	0.08	913	932	Sliding	Sliding - (WOB:22;GPM :558;TFO:10R))
9-Jun-15	17:45	17:48	0.05	932	944	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	17:48	17:53	0.08	944	944	Survey & Conn.	Survey & Conn.@877' Inc 31.57° Azm 99.55°
9-Jun-15	17:53	17:58	0.08	944	960	Sliding	Sliding - (WOB:22;GPM :558;TFO:20R))
9-Jun-15	17:58	18:01	0.05	960	975	Drilling	Drilling - (WOB:22;GPM :558;RPM:40)
9-Jun-15	18:01	18:06	0.08	975	975	Survey & Conn.	Survey & Conn.@908' Inc 32.99° Azm 99.68°
9-Jun-15	18:06	18:12	0.10	975	975	Other	Pason problems
9-Jun-15	18:12	18:16	0.07	975	993	Sliding	Sliding - (WOB:22;GPM :558;TFO:35R))
9-Jun-15	18:16	18:21	0.08	993	1006	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	18:21	18:30	0.15	1006	1006	Survey & Conn.	Survey & Conn.@939' Inc 34.48° Azm 100.78°
9-Jun-15	18:30	18:34	0.07	1006	1024	Sliding	Sliding - (WOB:22;GPM :558;TFO:20R))
9-Jun-15	18:34	18:37	0.05	1024	1037	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	18:37	18:50	0.22	1037	1037	Other	Swab out & Pason problems
9-Jun-15	18:50	18:55	0.08	1037	1037	Survey & Conn.	Survey & Conn.@970' Inc 35.53° Azm 102.61°
9-Jun-15	18:55	19:03	0.13	1037	1055	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	19:03	19:08	0.08	1055	1069	Drilling	Drilling - (WOB:22;GPM :348;RPM:55)
9-Jun-15	19:53	20:01	0.13	1133	1164	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	20:01	20:06	0.08	1164	1164	Survey & Conn.	Survey & Conn.@1097' Inc 40.88° Azm 105.09°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Jun-15	20:06	20:12	0.10	1164	1182	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)
9-Jun-15	20:12	20:16	0.07	1182	1195	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	20:16	20:21	0.08	1195	1195	Survey & Conn.	Survey & Conn.@1128' Inc 40.46° Azm 104.9°
9-Jun-15	20:21	20:28	0.12	1195	1227	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	20:28	20:32	0.07	1227	1227	Survey & Conn.	Survey & Conn.@1160' Inc 40.85° Azm 104.33°
9-Jun-15	20:32	20:36	0.07	1227	1242	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)
9-Jun-15	20:36	20:40	0.07	1242	1258	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	20:40	20:47	0.12	1258	1258	Survey & Conn.	Survey & Conn.@1191' Inc 41.65° Azm 103.81°
9-Jun-15	20:47	20:52	0.08	1258	1290	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	20:52	20:58	0.10	1290	1290	Survey & Conn.	Survey & Conn.@1223' Inc 41.39° Azm 103.49°
9-Jun-15	20:58	21:04	0.10	1290	1321	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	21:04	21:10	0.10	1321	1321	Survey & Conn.	Survey & Conn.@1254' Inc 41.7° Azm 103.32°
9-Jun-15	21:10	21:16	0.10	1321	1336	Sliding	Sliding - (WOB:22;GPM :558;TFO:360)
9-Jun-15	21:16	21:21	0.08	1336	1353	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	21:53	21:58	0.08	1427	1446	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	21:58	22:02	0.07	1446	1446	Survey & Conn.	Survey & Conn.@1379' Inc 42.02° Azm 102°
9-Jun-15	22:02	22:06	0.07	1446	1446	Other	Calibrate pason
9-Jun-15	22:06	22:12	0.10	1446	1478	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	22:12	22:18	0.10	1478	1478	Survey & Conn.	Survey & Conn.@1411' Inc 42.1° Azm 101.76°
9-Jun-15	22:18	22:23	0.08	1478	1509	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	22:45	22:51	0.10	1553	1572	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	22:51	22:57	0.10	1572	1572	Survey & Conn.	Survey & Conn.@1505' Inc 41.58° Azm 101.49°
9-Jun-15	22:57	23:02	0.08	1572	1603	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	23:02	23:11	0.15	1603	1603	Survey & Conn.	Survey & Conn.@1536' Inc 41.55° Azm 100.87°
9-Jun-15	23:11	23:39	0.47	1603	1666	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	23:39	23:42	0.05	1666	1666	Survey & Conn.	Survey & Conn.@1599' Inc 41.57° Azm 101.4°
9-Jun-15	23:42	23:57	0.25	1666	1698	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	23:57	24:00	0.05	1698	1698	Survey & Conn.	Survey & Conn.@1631' Inc 41.9° Azm 102.55°
9-Jun-15	16:20	16:27	0.12	760	760	Survey & Conn.	Survey & Conn.@693' Inc 24.62° Azm 100.39°
9-Jun-15	16:27	16:32	0.08	760	776	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	19:08	19:12	0.07	1069	1069	Survey & Conn.	Survey & Conn.@1002' Inc 36.85° Azm 103.57°
9-Jun-15	19:12	19:23	0.18	1069	1069	Other	Work on pason
9-Jun-15	19:23	19:28	0.08	1069	1087	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	19:28	19:33	0.08	1087	1087	Other	Draw works motor died
9-Jun-15	19:33	19:36	0.05	1087	1101	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	19:36	19:41	0.08	1101	1101	Survey & Conn.	Survey & Conn.@1034' Inc 38.5° Azm 105.16°
9-Jun-15	19:41	19:48	0.12	1101	1133	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	19:48	19:53	0.08	1133	1133	Survey & Conn.	Survey & Conn.@1066' Inc 40.16° Azm 105.39°
9-Jun-15	21:21	21:27	0.10	1353	1353	Survey & Conn.	Survey & Conn.@1286' Inc 41.35° Azm 103.24°
9-Jun-15	21:27	21:32	0.08	1353	1384	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	21:32	21:37	0.08	1384	1384	Survey & Conn.	Survey & Conn.@1317' Inc 41.54° Azm 102.73°
9-Jun-15	21:37	21:42	0.08	1384	1415	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	21:42	21:47	0.08	1415	1415	Survey & Conn.	Survey & Conn.@1348' Inc 42.42° Azm 102.19°
9-Jun-15	21:47	21:53	0.10	1415	1427	Sliding	Sliding - (WOB:22;GPM :558;TFO:360))
9-Jun-15	22:23	22:28	0.08	1509	1509	Survey & Conn.	Survey & Conn.@1442' Inc 42.88° Azm 102.76°
9-Jun-15	22:28	22:35	0.12	1509	1541	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
9-Jun-15	22:35	22:40	0.08	1541	1541	Survey & Conn.	Survey & Conn.@1474' Inc 42.34° Azm 102.28°
9-Jun-15	22:40	22:45	0.08	1541	1553	Sliding	Sliding - (WOB:22;GPM :558;TFO:40R)



JOB NO.:	330615DEF286989	Report Time:	2400	3 of 4
COMPANY:	B.P.	API JOB #	05 067 09930 00	
LOCATION:	SEC 2 T33N R8W	WORK ORDER#	286989	
RIG NAME:	Aztec 507	FIELD:	San Juan Basin	
STATE:	Colorado	Township:	33N	
COUNTY:	La Plata	SECT\	2	8W
WELL NAME:	Gallegos Bonafacio A 3			

From Wednesday, June 10, 2015 at 0000 to Wednesday, June 10, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1698.00	Rotary Hours	11.87	WOB	24	Pick UP	62	Slack Off	48	SPM	
End Depth	3533.00	Circulating Hours	1.25	RAB	56	SPP	1950	FlowRate	334 - 558	200	
Total Drilled:	1835.00	Avg. Total ROP:	117.13	Mud Data							
Total Rotary Drilled:	1539.00	Avg. Rotary ROP:	129.69	Type	LSND			PV	16	SOLID	4.7
Total Drilled Sliding:	296.00	Avg. Slide ROP:	77.89	Weight	9	GAS	0	YP	13	BHT°	120
Slide Hours:	3.80	Percent Rotary:	83.87	Viscosity	50	SAND	0.5	PH	9.3	Flow T°	110
Below Rotary Hrs.	24.00	Percent Slide:	16.13	Chlorides	1000	WL	9.3			Oil %	0
PERSONNEL				cASING					BHA		
Lead Directional :	David Hensley			Size	Lb/ft	Set Depth		BHA # 3:7 7/8 DS616M-V1 PDC w/ 4x12 2x13, 6 1/2 Motor 7/8 3.3 FBH 1.5, 6 1/2 NMPC, 6 1/2 NMPC, 6 1/2 HOS, 6 1/2 NMDC, 6 1/2 GAP SUB, 6 1/2 NMDC,			
Second Directional :	Mark Houston			8 5/8	24	392					
MWD Operator1	Kyle Temple			Signature:							
MWD Operator2	Mike Willms										
Directional Company:	SDI										
Geologist:											
Company Man:	Mike Starnes										
Incl. In:	41.9	Azm. In:	102.55	Incl. Out:	2.54	Azm. Out:	95.84				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Jun-15	00:00	00:07	0.12	1698	1729	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	00:07	00:10	0.05	1729	1729	Survey & Conn.	Survey & Conn.@1662' Inc 41.41° Azm 102.57°
10-Jun-15	00:10	00:28	0.30	1729	1759	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	00:28	00:31	0.05	1759	1759	Survey & Conn.	Survey & Conn.@1692' Inc 41.42° Azm 102.96°
10-Jun-15	00:31	00:49	0.30	1759	1791	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	00:49	00:52	0.05	1791	1791	Survey & Conn.	Survey & Conn.@1724' Inc 41.46° Azm 103.62°
10-Jun-15	00:52	01:13	0.35	1791	1823	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	01:13	01:15	0.03	1823	1823	Survey & Conn.	Survey & Conn.@1756' Inc 41.2° Azm 102.33°
10-Jun-15	01:15	01:35	0.33	1823	1854	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	01:35	01:38	0.05	1854	1854	Survey & Conn.	Survey & Conn.@1787' Inc 41.4° Azm 102.37°
10-Jun-15	01:38	02:02	0.40	1854	1886	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	02:02	02:05	0.05	1886	1886	Survey & Conn.	Survey & Conn.@1819' Inc 41.38° Azm 101.41°
10-Jun-15	02:05	02:18	0.22	1886	1917	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	02:18	02:21	0.05	1917	1917	Survey & Conn.	Survey & Conn.@1850' Inc 41.47° Azm 102.5°
10-Jun-15	02:21	02:34	0.22	1917	1949	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	02:34	02:37	0.05	1949	1949	Survey & Conn.	Survey & Conn.@1882' Inc 41.72° Azm 102.89°
10-Jun-15	02:37	02:52	0.25	1949	1981	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down)
10-Jun-15	02:52	02:55	0.05	1981	1981	Survey & Conn.	Survey & Conn.@1914' Inc 41.31° Azm 101.03°
10-Jun-15	03:31	03:55	0.40	2044	2075	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)Both pumps back on line
10-Jun-15	03:55	04:03	0.13	2075	2075	Circulating	Circulating
10-Jun-15	04:03	04:06	0.05	2075	2075	Survey & Conn.	Survey & Conn.@2008' Inc 40.99° Azm 100.88°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Jun-15	04:06	04:15	0.15	2075	2105	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	04:15	04:18	0.05	2105	2105	Survey & Conn.	Survey & Conn.@2038' Inc 40.89° Azm 101°
10-Jun-15	04:18	04:30	0.20	2105	2137	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	04:30	04:33	0.05	2137	2137	Survey & Conn.	Survey & Conn.@2070' Inc 41.07° Azm 100.53°
10-Jun-15	04:33	04:46	0.22	2137	2169	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	04:46	04:49	0.05	2169	2169	Survey & Conn.	Survey & Conn.@2102' Inc 40.89° Azm 100.61°
10-Jun-15	04:49	05:00	0.18	2169	2179	Sliding	Sliding - (WOB:22;GPM :558;TFO:180))
10-Jun-15	05:00	05:05	0.08	2179	2200	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	05:05	05:10	0.08	2200	2200	Survey & Conn.	Survey & Conn.@2133' Inc 41.03° Azm 100.37°
10-Jun-15	05:10	05:20	0.17	2200	2210	Sliding	Sliding - (WOB:22;GPM :558;TFO:180))
10-Jun-15	05:20	05:30	0.17	2210	2231	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	05:30	05:35	0.08	2231	2231	Survey & Conn.	Survey & Conn.@2164' Inc 40.76° Azm 100.33°
10-Jun-15	05:35	05:45	0.17	2231	2245	Sliding	Sliding - (WOB:22;GPM :558;TFO:180))
10-Jun-15	05:45	05:55	0.17	2245	2262	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	05:55	06:00	0.08	2262	2262	Survey & Conn.	Survey & Conn.@2195' Inc 39.12° Azm 101.48°
10-Jun-15	06:00	06:10	0.17	2262	2270	Sliding	Sliding - (WOB:22;GPM :558;TFO:180)
10-Jun-15	06:10	06:30	0.33	2270	2270	Other	Fix Autodrill
10-Jun-15	06:30	06:40	0.17	2270	2294	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	06:40	06:45	0.08	2294	2294	Survey & Conn.	Survey & Conn.@2227' Inc 37.84° Azm 102.51°
10-Jun-15	07:05	07:20	0.25	2333	2357	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	07:20	07:25	0.08	2357	2357	Survey & Conn.	Survey & Conn.@2290' Inc 34.94° Azm 104.73°
10-Jun-15	07:25	07:30	0.08	2357	2363	Sliding	Sliding - (WOB:30;GPM :558;TFO:180)
10-Jun-15	07:30	07:40	0.17	2363	2388	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	07:40	07:45	0.08	2388	2388	Survey & Conn.	Survey & Conn.@2321' Inc 33.8° Azm 104.76°
10-Jun-15	07:45	07:50	0.08	2388	2398	Sliding	Sliding - (WOB:30;GPM :558;TFO:180)
10-Jun-15	07:50	08:00	0.17	2398	2419	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	08:00	08:05	0.08	2419	2419	Survey & Conn.	Survey & Conn.@2352' Inc 32.46° Azm 105.22°
10-Jun-15	08:05	08:10	0.08	2419	2429	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	08:10	08:20	0.17	2429	2450	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	08:20	08:25	0.08	2450	2450	Survey & Conn.	Survey & Conn.@2383' Inc 31.74° Azm 104.28°
10-Jun-15	08:25	08:40	0.25	2450	2462	Sliding	Sliding - (WOB:30;GPM :558;TFO:-150)
10-Jun-15	08:40	08:45	0.08	2462	2482	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	08:45	08:50	0.08	2482	2482	Survey & Conn.	Survey & Conn.@2415' Inc 30.49° Azm 103.23°
10-Jun-15	08:50	08:55	0.08	2482	2494	Sliding	Sliding - (WOB:30;GPM :558;TFO:-150))
10-Jun-15	08:55	09:00	0.08	2494	2514	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	09:00	09:05	0.08	2514	2514	Survey & Conn.	Survey & Conn.@2447' Inc 29.05° Azm 101.69°
10-Jun-15	09:05	09:10	0.08	2514	2525	Sliding	Sliding - (WOB:30;GPM :558;TFO:-150))
10-Jun-15	09:10	09:20	0.17	2525	2544	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	09:20	09:25	0.08	2544	2544	Survey & Conn.	Survey & Conn.@2477' Inc 27.38° Azm 101.12°
10-Jun-15	09:25	09:35	0.17	2544	2554	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	09:35	09:45	0.17	2554	2576	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	09:45	09:50	0.08	2576	2576	Survey & Conn.	Survey & Conn.@2509' Inc 25.32° Azm 101.9°
10-Jun-15	09:50	09:55	0.08	2576	2584	Sliding	Sliding - (WOB:30;GPM :558;TFO:180)
10-Jun-15	09:55	10:00	0.08	2584	2608	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	10:00	11:50	1.83	2608	2608	Other	Repair flow line
10-Jun-15	11:50	11:55	0.08	2608	2608	Survey & Conn.	Survey & Conn.@2541' Inc 23.88° Azm 103.44°
10-Jun-15	11:55	12:00	0.08	2608	2614	Sliding	Sliding - (WOB:30;GPM :558;TFO:180)
10-Jun-15	12:00	12:15	0.25	2614	2639	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	12:15	12:20	0.08	2639	2639	Survey & Conn.	Survey & Conn.@2572' Inc 22.51° Azm 104.45°
10-Jun-15	12:20	12:25	0.08	2639	2645	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	12:25	12:40	0.25	2645	2670	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Jun-15	12:40	12:45	0.08	2670	2670	Survey & Conn.	Survey & Conn.@2603' Inc 21.19° Azm 104.01°
10-Jun-15	12:45	13:00	0.25	2670	2676	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	13:00	13:45	0.75	2676	2702	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	13:45	13:50	0.08	2702	2702	Survey & Conn.	Survey & Conn.@2635' Inc 20.03° Azm 103.57°
10-Jun-15	13:50	14:00	0.17	2702	2702	Other	Put 2nd pump on line
10-Jun-15	14:00	14:05	0.08	2702	2708	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	14:05	14:15	0.17	2708	2733	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	14:15	14:20	0.08	2733	2733	Survey & Conn.	Survey & Conn.@2666' Inc 19.09° Azm 104.2°
10-Jun-15	14:20	14:25	0.08	2733	2740	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	14:25	14:30	0.08	2740	2765	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	14:30	14:35	0.08	2765	2765	Survey & Conn.	Survey & Conn.@2698' Inc 18.35° Azm 104.08°
10-Jun-15	14:35	14:40	0.08	2765	2773	Sliding	Sliding - (WOB:30;GPM :558;TFO:-165))
10-Jun-15	14:40	14:45	0.08	2773	2797	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	14:45	14:50	0.08	2797	2797	Survey & Conn.	Survey & Conn.@2730' Inc 17.63° Azm 104.32°
10-Jun-15	14:50	14:55	0.08	2797	2806	Sliding	Sliding - (WOB:30;GPM :558;TFO:-165))
10-Jun-15	14:55	15:05	0.17	2806	2828	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	15:05	15:10	0.08	2828	2828	Survey & Conn.	Survey & Conn.@2761' Inc 16.53° Azm 104.45°
10-Jun-15	15:10	15:15	0.08	2828	2836	Sliding	Sliding - (WOB:30;GPM :558;TFO:-150))
10-Jun-15	15:15	15:25	0.17	2836	2859	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	15:25	15:30	0.08	2859	2859	Survey & Conn.	Survey & Conn.@2792' Inc 15.47° Azm 103.85°
10-Jun-15	15:30	15:40	0.17	2859	2867	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	15:40	15:45	0.08	2867	2886	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	15:45	15:50	0.08	2886	2886	Survey & Conn.	Survey & Conn.@2820' Inc 14.35° Azm 101.66°
10-Jun-15	15:50	15:55	0.08	2886	2894	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	15:55	16:05	0.17	2894	2917	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	16:05	16:10	0.08	2917	2917	Survey & Conn.	Survey & Conn.@2850' Inc 13.22° Azm 98.83°
10-Jun-15	16:10	16:15	0.08	2917	2925	Sliding	Sliding - (WOB:30;GPM :558;TFO:165R))
10-Jun-15	16:15	16:25	0.17	2925	2948	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	16:55	17:07	0.20	2979	2988	Sliding	Sliding - (WOB:30;GPM :558;TFO:165R)
10-Jun-15	17:07	17:17	0.17	2988	3011	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	17:17	17:20	0.05	3011	3011	Survey & Conn.	Survey & Conn.@2944' Inc 10.09° Azm 103.83°
10-Jun-15	17:20	17:25	0.08	3011	3021	Sliding	Sliding - (WOB:30;GPM :558;TFO:165R)
10-Jun-15	17:25	17:33	0.13	3021	3042	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	17:33	17:36	0.05	3042	3042	Survey & Conn.	Survey & Conn.@2975' Inc 9.4° Azm 102.81°
10-Jun-15	17:36	17:44	0.13	3042	3052	Sliding	Sliding - (WOB:30;GPM :558;TFO:165R)
10-Jun-15	17:44	17:58	0.23	3052	3074	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	17:58	18:01	0.05	3074	3074	Survey & Conn.	Survey & Conn.@3007' Inc 8.46° Azm 105°
10-Jun-15	18:01	18:04	0.05	3074	3082	Sliding	Sliding - (WOB:24;GPM :558;TFO:0))
10-Jun-15	18:04	18:10	0.10	3082	3105	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	18:10	18:14	0.07	3105	3105	Survey & Conn.	Survey & Conn.@3038' Inc 7.45° Azm 95.96°
10-Jun-15	18:14	18:37	0.38	3105	3136	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	18:37	18:40	0.05	3136	3136	Survey & Conn.	Survey & Conn.@3069' Inc 5.95° Azm 97.74°
10-Jun-15	18:40	18:47	0.12	3136	3168	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	18:47	18:50	0.05	3168	3168	Survey & Conn.	Survey & Conn.@3101' Inc 4.85° Azm 102.93°
10-Jun-15	18:50	19:00	0.17	3168	3199	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	19:00	19:03	0.05	3199	3199	Survey & Conn.	Survey & Conn.@3132' Inc 4.23° Azm 104.15°
10-Jun-15	19:03	19:13	0.17	3199	3230	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	19:13	19:15	0.03	3230	3230	Survey & Conn.	Survey & Conn.@3163' Inc 3.84° Azm 103.06°
10-Jun-15	19:15	19:25	0.17	3230	3262	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	19:25	19:28	0.05	3262	3262	Survey & Conn.	Survey & Conn.@3195' Inc 3.49° Azm 98.15°
10-Jun-15	19:28	19:36	0.13	3262	3293	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Jun-15	19:36	19:39	0.05	3293	3293	Survey & Conn.	Survey & Conn.@3226' Inc 3.08° Azm 103.57°
10-Jun-15	19:39	19:45	0.10	3293	3315	Sliding	Sliding - (WOB:24;GPM :558;TFO:160R)
10-Jun-15	19:45	19:55	0.17	3315	3325	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	19:55	19:58	0.05	3325	3325	Survey & Conn.	Survey & Conn.@3258' Inc 2.59° Azm 97.6°
10-Jun-15	19:58	20:06	0.13	3325	3337	Sliding	Sliding - (WOB:24;GPM :558;TFO:20R)
10-Jun-15	20:06	20:15	0.15	3337	3356	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	20:15	20:18	0.05	3356	3356	Survey & Conn.	Survey & Conn.@3289' Inc 2.39° Azm 105.21°
10-Jun-15	20:18	20:28	0.17	3356	3388	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	20:28	20:31	0.05	3388	3388	Survey & Conn.	Survey & Conn.@3321' Inc 3.23° Azm 106.06°
10-Jun-15	20:31	20:42	0.18	3388	3419	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	20:42	20:45	0.05	3419	3419	Survey & Conn.	Survey & Conn.@3352' Inc 4.17° Azm 104.47°
10-Jun-15	20:45	20:57	0.20	3419	3451	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	20:57	21:00	0.05	3451	3451	Survey & Conn.	Survey & Conn.@3384' Inc 4.23° Azm 100.53°
10-Jun-15	21:00	21:18	0.30	3451	3482	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	21:18	21:21	0.05	3482	3482	Survey & Conn.	Survey & Conn.@3415' Inc 3.72° Azm 98.78°
10-Jun-15	21:21	21:50	0.48	3482	3533	Drilling	Drilling - (WOB:24;GPM :558;RPM:55)
10-Jun-15	21:50	21:53	0.05	3533	3533	Survey & Conn.	Survey & Conn.@3466' Inc 2.54° Azm 95.84°
10-Jun-15	21:53	23:00	1.12	3533	3533	Circulating	Circulating
10-Jun-15	23:00	24:00	1.00	3533	3533	TIH	TIH
10-Jun-15	02:55	03:12	0.28	1981	2013	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(pump #1 down
10-Jun-15	03:12	03:15	0.05	2013	2013	Survey & Conn.	Survey & Conn.@1946' Inc 41.13° Azm 101.34°
10-Jun-15	03:15	03:28	0.22	2013	2044	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)(PUMP #1 DOWN)
10-Jun-15	03:28	03:31	0.05	2044	2044	Survey & Conn.	Survey & Conn.@1977' Inc 41.06° Azm 102.24°
10-Jun-15	06:45	06:50	0.08	2294	2302	Sliding	Sliding - (WOB:30;GPM :558;TFO:180)
10-Jun-15	06:50	06:55	0.08	2302	2325	Drilling	Drilling - (WOB:22;GPM :558;RPM:55)
10-Jun-15	06:55	07:00	0.08	2325	2325	Survey & Conn.	Survey & Conn.@2258' Inc 36.39° Azm 103.43°
10-Jun-15	07:00	07:05	0.08	2325	2333	Sliding	Sliding - (WOB:30;GPM :558;TFO:180))
10-Jun-15	16:25	16:30	0.08	2948	2948	Survey & Conn.	Survey & Conn.@2881' Inc 11.87° Azm 98.48°
10-Jun-15	16:30	16:40	0.17	2948	2956	Sliding	Sliding - (WOB:30;GPM :558;TFO:165R))
10-Jun-15	16:40	16:50	0.17	2956	2979	Drilling	Drilling - (WOB:24;GPM :334;RPM:55)
10-Jun-15	16:50	16:55	0.08	2979	2979	Survey & Conn.	Survey & Conn.@2912' Inc 10.55° Azm 101.23°



JOB NO.:	330615DEF286989	Report Time:	2400	4 of 4
COMPANY:	B.P.	API JOB #	05 067 09930 00	
LOCATION:	SEC 2 T33N R8W	WORK ORDER#	286989	
RIG NAME:	Aztec 507	FIELD:	San Juan Basin	
STATE:	Colorado	Township:	33N	
COUNTY:	La Plata	SECT\	RANGE: 2	8W
WELL NAME:	Gallegos Bonafacio A 3			

From Thursday, June 11, 2015 at 0000 to Thursday, June 11, 2015 at 2400

DRILLING SUMMARY						Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	24	Pick UP	62	Slack Off	48	SPM			
End Depth	0.00	Circulating Hours	0.00	RAB	56	SPP	1950	FlowRate	558 - 558	200			
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data									
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	LSND				PV	16	SOLID	4.7	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9	GAS	0	YP	13	BHT°	120		
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	50	SAND	0.5	PH	9.3	Flow T°	110		
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	1000	WL	9.3			Oil %	0		
PERSONNEL				cASING					BHA				
Lead Directional :	David Hensley			Size	Lb/ft		Set Depth		BHA # 3:7 7/8 DS616M-V1 PDC w/ 4x12 2x13, 6 1/2 Motor 7/8 3.3 FBH 1.5, 6 1/2 NMPC, 6 1/2 NMPC, 6 1/2 HOS, 6 1/2 NMDC, 6 1/2 GAP SUB, 6 1/2 NMDC,				
Second Directional :	Mark Houston			8 5/8	24		392						
MWD Operator1	Kyle Temple			Signature:									
MWD Operator2	Mike Willms												
Directional Company:	SDI												
Geologist:													
Company Man:	Mike Starnes												
Incl. In:	2.54	Azm. In:	95.84	Incl. Out:	0	Azm. Out:	0						

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Jun-15	00:00	05:00	5.00	3533	3533	POOH	POOH Down Directional Tools
11-Jun-15	05:00	24:00	19.00	3533	3533	Other	Rig Operations

BHA # 1

SDI



JOB NO.: 330615DEF286989 Work Order: 286989
 COMPANY: B.P.
 LOCATION: SEC 2 T33N R8W
 RIG NAME: Aztec 507
 STATE: Colorado
 COUNTY: La Plata
 WELL NAME: Gallegos Bonafacio A 3

FIELD: San Juan Basin
 Township: 33N
 SECT. RANGE: 2 8W
 Lead DD: David Hensley
 Co. Man: Mike Starnes
 BHA TYPE: Slick Assembly
 BHA WT: 3459 Wt @ Jars: N/A

Time and Depths		MOTOR DATA	Drilling Parameters	
Date In:	08-Jun-15 @ 07:45	Nov Top Hole Motor	SO/PU:	20 - 20 / 20-20
Date Out:	08-Jun-15 @ 10:00	MFG.: NOV	Rot Strg Wt:	20-20
Hrs In Hole:	2.25	Pad OD:	WOB:	15 - 15
Start Depth:	106.00	NB Stab:	TORQ:	1 - 1
End Depth:	106.00	Bit to Bend:	SPP:	389 - 389
Total Drilled:	.00	Bent Hsg/Sub°:	Motor RPM:	No Rev/Gal Input
Avg. Total ROP:	.00	Lobe/Stage:	Rotary RPM:	40 - 40
Circ Hrs: Tot/Only	2.00 / .25	Rev/GAL:	Flow Rate:	351 - 351
Percent Slide:	NA	Rotor Jet:	Avg Diff:	
Percent Hrs:	.00	Prop BUR:	Stall Pres.:	
Slide Hours:	.00	Act BUR:	Off Bot Pres.:	
Total Sliding:	.00	Mud Data		Bit Record
Avg. Slide ROP:	NA	Type	Spud	NOV / GHIGC 12 1/14" 3x16 1x12
Percent Rotary:	NA	WT:	9	Run #: 1
Percent Hrs:	100.00	Vis:	80	Type Bit: ROCK
Rotary Hours:	1.75	WL:	8	IADC#: TFA: 0.699
Total Rotary:	.00	SOL:	2.6	JETS: 12,3-16
Avg. Rotary ROP:	.00	Oil %:	0	Bit Drop: 209 PSI @ 351 GPM
Reason POOH:		Chlor:	900	Cond.:
MWD	Gamma: 0	Restiv: 0	Sensor: 0	Last Casing
Spacing	GYRO: 0	DNSC: 0	Sonic: 0	Shoe @: Hanger @:

INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
GHIGC 12 1/14" 3x16 1x12 TFA=.699	11231901	.699	12 1/4	1.00	1.00	6 5/8 REGP	NOV
NOV Bit Sub	450XS6625	2 3/8	7 11/16	1.11	2.11	4 1/2 REGP	
NOV top hole motor 7:8 2.9	675-67860-H	4	6 3/4	29.45	31.56	4 1/2 XHB	OTHER
Shock Sub	1	2 1/16	6 3/8	11.56	43.12	4 1/2 XHB	Other

Shock Sub
O.D.=6 3/8
Length=11.56

NOV top hole motor 7:8 2.9
O.D.=6 3/4
Length=29.45

NOV Bit Sub
O.D.=7 11/16
Length=1.11

GHIGC 12 1/14" 3x16 1x12
O.D.=12 1/4
Length=1



JOB NO.: 330615DEF286989
COMPANY: B.P.
LOCATION: SEC 2 T33N R8W
RIG NAME: Aztec 507
STATE: Colorado
COUNTY: Country
WELL NAME: Gallegos Bonafacio A 3

FIELD: San Juan Basin
Township: 33N
Range 8W

MOTOR INFORMATION		
Desc: Nov Top Hole Motor		
Bent Hsg/Sub: 0	/ 0	Bit to Bend: 0
Pad OD:		NB Stab:

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	8-Jun	Drilling	08:00	09:45	1.75	106	106	0	15	0.0	40	1	351	389		0.00	0.00	0.00	

Total Drilled:						0	Avg. Total ROP:				.00	DEPTH% - TIME %							
Total Rotary Drilled:						0	Avg. Rotary ROP:				.00	Percent Rotary:		NA					
Total Drilled Sliding:						0	Avg. Slide ROP:				NA	Percent Slide:		NA					

BHA # 2

SDI



JOB NO.: 330615DEF286989 Work Order: 286989
 COMPANY: B.P.
 LOCATION: SEC 2 T33N R8W
 RIG NAME: Aztec 507
 STATE: Colorado
 COUNTY: La Plata
 WELL NAME: Gallegos Bonafacio A 3

FIELD: San Juan Basin
 Township: 33N
 SECT. RANGE: 2 8W
 Lead DD: David Hensley
 Co. Man: Mike Starnes
 BHA TYPE: Steerable Assembly
 BHA WT: 7710 Wt @ Jars: N/A

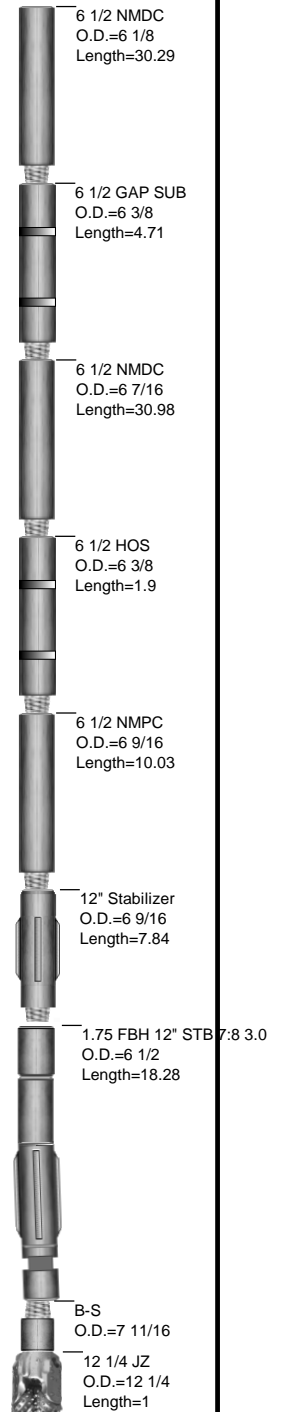
Time and Depths		MOTOR DATA		Drilling Parameters	
Date In:	08-Jun-15 @ 10:00	6 1/2 Motor 7/8 3.0 FBH 1.75		SO/PU:	20 - 25 / 20-25
Date Out:	09-Jun-15 @ 10:00	MFG.: SDI		Rot Strg Wt:	20-25
Hrs In Hole:	8.00	Pad OD: 6 7/8		WOB:	15 - 22
Start Depth:	106.00	NB Stab: 12		TORQ:	1 - 3
End Depth:	403.00	Bit to Bend: 4.44		SPP:	389 - 1300
Total Drilled:	297.00	Bent Hsg/Sub°: 1.75 /		Motor RPM:	102 - 162
Avg. Total ROP:	108.00	Lobe/Stage: 7/8 / 3		Rotary RPM:	40 - 40
Circ Hrs: Tot/Only	3.25 / .50	Rev/GAL: 0.29		Flow Rate:	351 - 558
Percent Slide:	38.05	Rotor Jet: 0		Avg Diff:	250
Percent Hrs:	45.45	Prop BUR: 8.5		Stall Pres.:	1350
Slide Hours:	1.25	Act BUR: 30		Off Bot Pres.:	1100
Total Sliding:	113.00	Mud Data		Bit Record	
Avg. Slide ROP:	90.40	Type	Spud	OTHER / 12 1/4 JZ	
Percent Rotary:	61.95	WT:	9	GAS:	0
Percent Hrs:	54.55	Vis:	35	PV:	8
Rotary Hours:	1.50	WL:	9	PH:	8.4
Total Rotary:	184.00	SOL:	4.7	SAND:	0.5
Avg. Rotary ROP:	122.67	Oil %:	0	T °:	95
Reason POOH:	TD	Chlor:	1000	YP:	17
MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 57	Last Casing	in .
	GYRO: 0	DNSC: 0	Sonic: 0	Shoe @:	Hanger @:

INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

Motor # 65273 going in W 0.0 HRS

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
12 1/4 JZ	F32281	3	12 1/4	1.00	1.00	4 1/2 REGP	OTHER
B-S	12-100	2 3/8	7 11/16	1.03	2.03	4 1/2 REGP	SDI
1.75 FBH 12" STB 7:8 3.0	65273	0	6 1/2	18.28	20.31	4 1/2 XHB	SDI
12" Stabilizer	604124	2 7/8	6 9/16	7.84	28.15	4 1/2 XHB	SDI
6 1/2 NMPC	125-485	3 1/4	6 9/16	10.03	38.18	4 1/2 XHB	SDI
6 1/2 HOS	8-728	3 1/4	6 3/8	1.90	40.08	4 1/2 XHB	SDI
6 1/2 NMDC	122-691	3 1/4	6 7/16	30.98	71.06	4 1/2 XHB	SDI
6 1/2 GAP SUB	69-858	2 7/8	6 3/8	4.71	75.77	4 1/2 XHB	SDI
6 1/2 NMDC	122-283	3 5/16	6 1/8	30.29	106.06	4 1/2 XHB	SDI





JOB NO.: 330615DEF286989
COMPANY: B.P.
LOCATION: SEC 2 T33N R8W
RIG NAME: Aztec 507
STATE: Colorado
COUNTY: Country
WELL NAME: Gallegos Bonafacio A 3

FIELD: San Juan Basin
Township: 33N
Range 8W

MOTOR INFORMATION	
Desc: 6 1/2 Motor 7/8 3.0 FBH 1.75	
Bent Hsg/Sub: 1.75/ 0	Bit to Bend: 4.44
Pad OD: 6 7/8	NB Stab:

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	8-Jun	Sliding	12:15	12:30	0.25	106	121	15	15	60.0	0	1	351	389	102	1.65	96.00	4.41	
2	8-Jun	Drilling	12:30	12:40	0.17	121	136	15	15	90.0	40	1	351	991		2.31	97.00	4.41	
2	8-Jun	Sliding	12:45	12:55	0.17	136	149	13	15	78.0	0	1	558	991	102	3.03	92.00	5.77	
2	8-Jun	Drilling	12:55	13:00	0.08	149	165	16	15	192.0	40	1	558	991		3.95	93.00	5.77	
2	8-Jun	Sliding	13:05	13:10	0.08	165	177	12	15	144.0	40	1	558	991	102	4.49	94.00	4.17	
2	8-Jun	Drilling	13:10	13:20	0.17	177	195	18	15	108.0	40	1	558	991		5.24	94.00	4.17	
2	8-Jun	Sliding	13:25	13:35	0.17	195	205	10	15	60.0	0	1	558	991	135	5.67	95.00	4.51	
2	8-Jun	Drilling	13:35	13:55	0.33	205	224	19	15	57.0	40	1	558	991		6.52	96.00	4.51	
2	8-Jun	Sliding	14:00	14:05	0.08	224	231	7	20	84.0	0	1	558	991	135	6.79	97.00	3.74	
2	8-Jun	Drilling	14:05	14:15	0.17	231	255	24	20	144.0	40	1	558	991		7.65	99.00	3.74	
2	8-Jun	Sliding	14:20	14:30	0.17	255	265	10	20	60.0	0	1	558	991	30	8.04	100.00	4.09	
2	8-Jun	Drilling	14:30	14:40	0.17	265	284	19	20	114.0	40	3	558	1300		8.78	101.00	4.09	
2	8-Jun	Sliding	14:45	14:50	0.08	284	294	10	20	120.0	0	3	558	1300	30	9.30	102.00	5.39	
2	8-Jun	Drilling	14:50	14:55	0.08	294	313	19	20	228.0	40	3	558	1300		10.32	102.00	5.39	
2	8-Jun	Sliding	15:00	15:05	0.08	313	323	10	20	120.0	0	3	558	1300	15	10.85	103.00	5.30	
2	8-Jun	Drilling	15:05	15:15	0.17	323	342	19	20	114.0	40	3	558	1300		11.86	103.00	5.30	
2	8-Jun	Sliding	15:20	15:25	0.08	342	353	11	20	132.0	40	3	558	1300	15	0.00	0.00	0.00	
2	8-Jun	Drilling	15:25	15:30	0.08	353	373	20	20	240.0	40	3	558	1300		0.00	0.00	0.00	
2	8-Jun	Sliding	15:35	15:40	0.08	373	388	15	22	180.0	0	3	558	1300	15	0.00	0.00	0.00	
2	8-Jun	Drilling	15:40	15:45	0.08	388	403	15	22	180.0	40	3	558	1300		0.00	0.00	0.00	

Total Drilled:	297	Avg. Total ROP:	108.00	DEPTH% - TIME %	
Total Rotary Drilled:	184	Avg. Rotary ROP:	122.67	Percent Rotary:	61.95 - 54.55
Total Drilled Sliding:	113	Avg. Slide ROP:	90.40	Percent Slide:	38.05 - 45.45

BHA # 3

SDI



JOB NO.: 330615DEF286989 Work Order: 286989
 COMPANY: B.P.
 LOCATION: SEC 2 T33N R8W
 RIG NAME: Aztec 507
 STATE: Colorado
 COUNTY: La Plata
 WELL NAME: Gallegos Bonafacio A 3

FIELD: San Juan Basin
 Township: 33N
 SECT. RANGE: 2 8W
 Lead DD: David Hensley
 Co. Man: Mike Starnes
 BHA TYPE: Steerable Assembly
 BHA WT: 8950 Wt @ Jars: N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 09-Jun-15 @ 10:00	6 1/2 Motor 7:8 3.3 FBH 1.50	SO/PU: 25 - 52 / 25-62
Date Out: 11-Jun-15 @ 05:00	MFG.: SDI	Rot Strg Wt: 25-56
Hrs In Hole: 43.00	Pad OD: 6 7/8	WOB: 22 - 30
Start Depth: 403.00	NB Stab: 0	TORQ: 3 - 10
End Depth: 3533.00	Bit to Bend: 5.23	SPP: 901 - 1950
Total Drilled: 3130.00	Bent Hsg/Sub°: 1.5 /	Motor RPM: 47 - 78
Avg. Total ROP: 143.25	Lobe/Stage: 7:8 / 3.3	Rotary RPM: 40 - 55
Circ Hrs: Tot/Only 24.18 / 2.33	Rev/GAL: 0.14	Flow Rate: 334 - 558
Percent Slide: 22.46	Rotor Jet: 0	Avg Diff: 500
Percent Hrs: 27.31	Prop BUR: 4.5	Stall Pres.: 510
Slide Hours: 5.97	Act BUR: 4.5	Off Bot Pres.: 1700
Total Sliding: 703.00		
Avg. Slide ROP: 117.82		
Percent Rotary: 77.54		
Percent Hrs: 72.69		
Rotary Hours: 15.88		
Total Rotary: 2427.00		
Avg. Rotary ROP: 152.80		
Reason POOH: TD		
Mud Data		Bit Record
Type LSND		REED / 7 7/8 DS616M-V1 PDC w/ 4x12
WT: 9	GAS: 0	Run #: 3
Vis: 50	PV: 16	Type Bit: PDC
WL: 9.3	PH: 9.3	IADC#: 516 TFA: 0.701
SOL: 4.7	SAND: 0.5	JETS: 4-12,2-13
Oil %: 0	T °: 120	Bit Drop: 525 PSI @ 558 GPM
Chlor: 1000	YP: 13	Cond.: Bit Looked Good
MWD	Gamma: 0	Restiv: 0
Spacing	GYRO: 0	DNSC: 403
	Sensor: 66	Sonic: 0
	Last Casing	Shoe @: Hanger @:

INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

Bit to eye=64'

Motor # 6348 going in W/ 21.68 HRS

Rev/Gal 0.14

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
7 7/8 DS616M-V1 PDC w/ 4x12 2x13	A200717	.61	7 7/8	0.75	0.75	4 1/2 REGP	SMITH
6 1/2 Motor 7/8 3.3 FBH 1.5	RR6348	1	6 1/2	29.49	30.24	4 1/2 XHB	SDI
6 1/2 NMPC	125-464	3 1/4	6 9/16	9.93	40.17	4 1/2 XHB	SDI
6 1/2 NMPC	125-485	3 1/4	6 9/16	10.03	50.20	4 1/2 XHB	SDI
6 1/2 HOS	8-728	3 1/4	6 3/8	1.90	52.10	4 1/2 XHB	SDI
6 1/2 NMDC	122-691	3 1/4	6 7/16	30.98	83.08	4 1/2 XHB	SDI
6 1/2 GAP SUB	69-858	2 7/8	6 3/8	4.71	87.79	4 1/2 XHB	SDI
6 1/2 NMDC	122-283	3 5/16	6 1/8	30.29	118.08	4 1/2 XHB	SDI

6 1/2 NMDC
O.D.=6 1/8
Length=30.29

6 1/2 GAP SUB
O.D.=6 3/8
Length=4.71

6 1/2 NMDC
O.D.=6 7/16
Length=30.98

6 1/2 HOS
O.D.=6 3/8
Length=1.9

6 1/2 NMPC
O.D.=6 9/16
Length=10.03

6 1/2 NMPC
O.D.=6 9/16
Length=9.93

6 1/2 Motor 7/8 3.3 FBH 1.5
O.D.=6 1/2
Length=29.49

7 7/8 DS616M-V1 PDC w/ 4x12
O.D.=7 7/8
Length=0.75



JOB NO.: 330615DEF286989
COMPANY: B.P.
LOCATION: SEC 2 T33N R8W
RIG NAME: Aztec 507
STATE: Colorado
COUNTY: Country
WELL NAME: Gallegos Bonafacio A 3

FIELD: San Juan Basin
Township: 33N
Range 8W

MOTOR INFORMATION	
Desc: 6 1/2 Motor 7:8 3.3 FBH 1.50	
Bent Hsg/Sub: 1.5 / 0	Bit to Bend: 5.23
Pad OD: 6 7/8	NB Stab:

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	9-Jun	Drilling	13:30	13:45	0.25	403	424	21	22	84.0	40	3	558	1300		14.83	103.00	3.21	
3	9-Jun	Sliding	13:50	14:00	0.17	424	434	10	22	60.0	0	3	558	1300	15	15.15	103.00	3.21	
3	9-Jun	Drilling	14:00	14:10	0.17	434	454	20	22	120.0	40	3	558	1300		15.80	103.00	3.54	
3	9-Jun	Sliding	14:15	14:20	0.08	454	464	10	22	120.0	40	3	558	1300	15	16.13	104.00	3.54	
3	9-Jun	Drilling	14:20	14:25	0.08	464	485	21	22	252.0	40	3	558	1300		16.86	104.00	4.12	
3	9-Jun	Sliding	14:30	14:35	0.08	485	497	12	22	144.0	0	3	558	1300	360	17.36	105.00	4.12	
3	9-Jun	Drilling	14:35	14:40	0.08	497	516	19	22	228.0	40	3	558	1300		18.12	105.00	3.77	
3	9-Jun	Sliding	14:45	14:50	0.08	516	531	15	22	180.0	40	3	558	1300	360	18.68	105.00	3.77	
3	9-Jun	Drilling	14:50	14:55	0.08	531	547	16	22	192.0	40	3	558	1300		19.34	105.00	4.77	
3	9-Jun	Sliding	15:00	15:05	0.08	547	562	15	22	180.0	40	3	558	1300	360	20.03	105.00	4.77	
3	9-Jun	Drilling	15:05	15:10	0.08	562	578	16	22	192.0	40	3	558	1300		20.76	104.00	4.50	
3	9-Jun	Sliding	15:15	15:20	0.08	578	593	15	22	180.0	0	3	558	1300	-15	21.44	104.00	4.50	
3	9-Jun	Drilling	15:20	15:25	0.08	593	608	15	22	180.0	40	3	558	1300		22.14	103.00	4.98	
3	9-Jun	Sliding	15:30	15:33	0.05	608	623	15	22	300.0	40	5	558	1300	-15	22.88	104.00	4.98	
3	9-Jun	Drilling	15:33	15:36	0.05	623	638	15	22	300.0	40	5	558	1300		23.49	103.00	3.60	
3	9-Jun	Sliding	15:40	15:42	0.03	638	652	14	22	420.0	40	5	558	1300	-15	23.85	104.00	3.60	
3	9-Jun	Drilling	15:42	15:45	0.05	652	669	17	22	340.0	40	5	558	1300		24.23	101.00	1.94	
3	9-Jun	Sliding	15:50	15:52	0.03	669	682	13	22	390.0	40	5	558	1300	360	24.44	102.00	1.94	
3	9-Jun	Drilling	15:52	15:55	0.05	682	699	17	22	340.0	40	5	558	1300		24.74	100.00	2.09	
3	9-Jun	Sliding	16:00	16:02	0.03	699	711	12	22	360.0	40	5	558	1300	360	24.99	101.00	2.09	
3	9-Jun	Drilling	16:02	16:08	0.10	711	729	18	22	180.0	40	5	558	1300		25.46	100.00	3.61	
3	9-Jun	Sliding	16:14	16:16	0.03	729	743	14	22	420.0	40	5	558	1300	360	25.96	100.00	3.61	
3	9-Jun	Drilling	16:16	16:20	0.07	743	760	17	22	255.0	40	5	558	1300		26.58	100.00	3.74	
3	9-Jun	Sliding	16:27	16:32	0.08	760	776	16	22	192.0	40	5	558	1300	15R	27.18	100.00	3.74	
3	9-Jun	Drilling	16:32	16:35	0.05	776	790	14	22	280.0	40	5	558	1300		27.73	100.00	4.26	

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	9-Jun	Sliding	16:43	16:46	0.05	790	806	16	22	320.0	40	5	558	1300	360	28.41	100.00	4.26	
3	9-Jun	Drilling	16:46	16:49	0.05	806	821	15	22	300.0	40	5	558	1300		29.01	100.00	3.46	
3	9-Jun	Sliding	16:54	16:58	0.07	821	837	16	22	240.0	40	5	558	1300	25R	29.56	100.00	3.46	
3	9-Jun	Drilling	16:58	17:02	0.07	837	852	15	22	225.0	40	5	558	1300		30.20	100.00	5.64	
3	9-Jun	Sliding	17:07	17:12	0.08	852	870	18	22	216.0	40	5	558	1300	10R	31.19	101.00	5.64	
3	9-Jun	Drilling	17:12	17:15	0.05	870	883	13	22	260.0	40	5	558	1300		31.84	100.00	4.59	
3	9-Jun	Sliding	17:21	17:30	0.15	883	900	17	22	113.3	40	5	558	1300	10R	32.62	100.00	4.59	
3	9-Jun	Drilling	17:30	17:34	0.07	900	913	13	22	195.0	40	5	558	1300		33.23	100.00	5.19	
3	9-Jun	Sliding	17:40	17:45	0.08	913	932	19	22	228.0	40	5	558	1300	20R	34.14	101.00	5.19	
3	9-Jun	Drilling	17:45	17:48	0.05	932	944	12	22	240.0	40	5	558	1300		34.65	101.00	4.79	
3	9-Jun	Sliding	17:53	17:58	0.08	944	960	16	22	192.0	40	5	558	1300	35R	35.19	102.00	4.79	
3	9-Jun	Drilling	17:58	18:01	0.05	960	975	15	22	300.0	55	5	558	1300		35.74	103.00	4.49	
3	9-Jun	Sliding	18:12	18:16	0.07	975	993	18	22	270.0	55	5	558	1300	20R	36.48	103.00	4.49	
3	9-Jun	Drilling	18:16	18:21	0.08	993	1006	13	22	156.0	55	5	558	1300		37.06	104.00	5.98	
3	9-Jun	Sliding	18:30	18:34	0.07	1006	1024	18	22	270.0	55	5	558	1300	25R	37.98	105.00	5.98	
3	9-Jun	Drilling	18:34	18:37	0.05	1024	1037	13	22	260.0	55	5	558	1300		38.66	105.00	5.21	
3	9-Jun	Sliding	18:55	19:03	0.13	1037	1055	18	22	135.0	55	5	348	930	360	39.59	105.00	5.21	
3	9-Jun	Drilling	19:03	19:08	0.08	1055	1069	14	22	168.0	55	5	348	930		40.23	105.00	2.41	
3	9-Jun	Sliding	19:23	19:28	0.08	1069	1087	18	22	216.0	55	5	558	1450	360	40.65	106.00	2.41	
3	9-Jun	Drilling	19:33	19:36	0.05	1087	1101	14	22	280.0	55	5	558	1450		40.83	105.00	1.41	
3	9-Jun	Drilling	19:41	19:48	0.12	1101	1133	32	22	274.3	55	5	558	1450		40.52	105.00	1.68	
3	9-Jun	Drilling	19:53	20:01	0.13	1133	1164	31	22	232.5	55	5	558	1450		40.95	104.00	2.81	
3	9-Jun	Sliding	20:06	20:12	0.10	1164	1182	18	22	180.0	55	5	558	1450	360	41.42	105.00	2.81	
3	9-Jun	Drilling	20:12	20:16	0.07	1182	1195	13	22	195.0	55	5	558	1450	360	41.62	104.00	1.05	
3	9-Jun	Drilling	20:21	20:28	0.12	1195	1227	32	22	274.3	55	5	558	1450		41.43	104.00	1.06	
3	9-Jun	Sliding	20:32	20:36	0.07	1227	1242	15	22	225.0	55	5	558	1450	360	41.58	104.00	1.06	
3	9-Jun	Drilling	20:36	20:40	0.07	1242	1258	16	22	240.0	55	5	558	1450		41.66	103.00	1.11	
3	9-Jun	Drilling	20:47	20:52	0.08	1258	1290	32	22	384.0	55	5	558	1450		41.37	103.00	1.25	
3	9-Jun	Drilling	20:58	21:04	0.10	1290	1321	31	22	310.0	55	5	558	1450		41.65	103.00	3.07	
3	9-Jun	Sliding	21:10	21:16	0.10	1321	1336	15	22	150.0	55	5	558	1450	360	42.08	103.00	3.07	
3	9-Jun	Drilling	21:16	21:21	0.08	1336	1353	17	22	204.0	55	5	558	1450		42.36	102.00	1.35	
3	9-Jun	Drilling	21:27	21:32	0.08	1353	1384	31	22	372.0	55	5	558	1450		42.03	102.00	0.56	
3	9-Jun	Drilling	21:37	21:42	0.08	1384	1415	31	22	372.0	55	5	558	1450		42.20	102.00	3.33	

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Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	9-Jun	Sliding	21:47	21:53	0.10	1415	1427	12	22	120.0	55	5	558	1450	40R	42.50	102.00	3.33	
3	9-Jun	Drilling	21:53	21:58	0.08	1427	1446	19	22	228.0	55	5	558	1450		42.81	103.00	1.97	
3	9-Jun	Drilling	22:06	22:12	0.10	1446	1478	32	22	320.0	55	5	558	1450		42.24	102.00	2.99	
3	9-Jun	Drilling	22:18	22:23	0.08	1478	1509	31	22	372.0	55	5	558	1550		41.58	102.00	1.33	
3	9-Jun	Drilling	22:28	22:35	0.12	1509	1541	32	22	274.3	55	5	558	1550		41.59	101.00	1.16	
3	9-Jun	Sliding	22:40	22:45	0.08	1541	1553	12	22	144.0	55	5	558	1550	40R	41.70	101.00	1.16	
3	9-Jun	Drilling	22:45	22:51	0.10	1553	1572	19	22	190.0	55	5	558	1550		41.78	101.00	0.86	
3	9-Jun	Drilling	22:57	23:02	0.08	1572	1603	31	22	372.0	55	5	558	1550		41.61	102.00	2.61	
3	9-Jun	Drilling	23:11	23:39	0.47	1603	1666	63	22	135.0	55	5	558	1550		41.41	103.00	0.86	
3	9-Jun	Drilling	23:42	23:57	0.25	1666	1698	32	22	128.0	55	5	558	1550		41.43	103.00	1.37	
3	10-Jun	Drilling	00:00	00:07	0.12	1698	1729	31	22	265.7	55	5	558	1550		41.42	104.00	2.78	
3	10-Jun	Drilling	00:10	00:28	0.30	1729	1759	30	22	100.0	55	5	558	1550		41.22	102.00	0.65	
3	10-Jun	Drilling	00:31	00:49	0.30	1759	1791	32	22	106.7	55	5	558	1550		41.40	102.00	1.98	
3	10-Jun	Drilling	00:52	01:13	0.35	1791	1823	32	22	91.4	55	5	558	1550		41.39	102.00	2.34	
3	10-Jun	Drilling	01:15	01:35	0.33	1823	1854	31	22	93.0	55	5	558	1550		41.50	103.00	1.12	
3	10-Jun	Drilling	01:38	02:02	0.40	1854	1886	32	22	80.0	55	5	558	1550		41.67	103.00	4.06	
3	10-Jun	Drilling	02:05	02:18	0.22	1886	1917	31	22	143.1	55	5	558	1550		41.29	101.00	0.85	
3	10-Jun	Drilling	02:21	02:34	0.22	1917	1949	32	22	147.7	55	5	558	1550		41.12	101.00	1.92	
3	10-Jun	Drilling	02:37	02:52	0.25	1949	1981	32	22	128.0	55	5	558	1550		41.05	102.00	2.89	
3	10-Jun	Drilling	02:55	03:12	0.28	1981	2013	32	22	112.9	55	5	558	1550		40.97	101.00	0.42	
3	10-Jun	Drilling	03:15	03:28	0.22	2013	2044	31	22	143.1	55	5	558	1550		40.92	101.00	1.12	
3	10-Jun	Drilling	03:31	03:55	0.40	2044	2075	31	22	77.5	55	5	558	1550		41.04	101.00	0.59	
3	10-Jun	Drilling	04:06	04:15	0.15	2075	2105	30	22	200.0	55	5	558	1550		40.90	101.00	0.68	
3	10-Jun	Drilling	04:18	04:30	0.20	2105	2137	32	22	160.0	55	5	558	1550		41.00	100.00	0.88	
3	10-Jun	Drilling	04:33	04:46	0.22	2137	2169	32	22	147.7	55	5	558	1550		40.49	101.00	5.80	
3	10-Jun	Sliding	04:49	05:00	0.18	2169	2179	10	22	54.5	55	5	558	1550	180	39.97	101.00	5.80	
3	10-Jun	Drilling	05:00	05:05	0.08	2179	2200	21	22	252.0	55	5	558	1550		38.92	102.00	4.47	
3	10-Jun	Sliding	05:10	05:20	0.17	2200	2210	10	22	60.0	55	5	558	1550	150	38.52	102.00	4.47	
3	10-Jun	Drilling	05:20	05:30	0.17	2210	2231	21	22	126.0	55	5	558	1550		37.65	103.00	5.01	
3	10-Jun	Sliding	05:35	05:45	0.17	2231	2245	14	22	84.0	55	5	558	1550	180	37.00	103.00	5.01	
3	10-Jun	Drilling	05:45	05:55	0.17	2245	2262	17	22	102.0	55	5	558	1550		36.21	104.00	5.11	
3	10-Jun	Sliding	06:00	06:10	0.17	2262	2270	8	30	48.0	55	5	558	1550	180	35.84	104.00	5.11	
3	10-Jun	Drilling	06:30	06:40	0.17	2270	2294	24	22	144.0	55	5	558	1550		34.79	105.00	3.68	

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Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	10-Jun	Sliding	06:45	06:50	0.08	2294	2302	8	30	96.0	55	5	558	1550	180	34.50	105.00	3.68	
3	10-Jun	Drilling	06:50	06:55	0.08	2302	2325	23	22	276.0	55	5	558	1550		33.63	105.00	4.40	
3	10-Jun	Sliding	07:00	07:05	0.08	2325	2333	8	30	96.0	55	5	558	1800	180	33.28	105.00	4.40	
3	10-Jun	Drilling	07:05	07:20	0.25	2333	2357	24	24	96.0	55	5	558	1800		32.34	105.00	2.83	
3	10-Jun	Sliding	07:25	07:30	0.08	2357	2363	6	30	72.0	55	5	558	1800	180	32.20	106.00	2.83	
3	10-Jun	Drilling	07:30	07:40	0.17	2363	2388	25	24	150.0	55	5	558	1800		31.54	104.00	4.26	
3	10-Jun	Sliding	07:45	07:50	0.08	2388	2398	10	30	120.0	55	5	558	1800	180	31.15	105.00	4.26	
3	10-Jun	Drilling	07:50	08:00	0.17	2398	2419	21	24	126.0	55	5	558	1800		30.31	103.00	5.09	
3	10-Jun	Sliding	08:05	08:10	0.08	2419	2429	10	30	120.0	55	9	558	1800	-150	29.86	104.00	5.09	
3	10-Jun	Drilling	08:10	08:20	0.17	2429	2450	21	24	126.0	55	9	558	1800		28.88	102.00	5.64	
3	10-Jun	Sliding	08:25	08:40	0.25	2450	2462	12	30	48.0	55	9	558	1800	-150	28.21	102.00	5.64	
3	10-Jun	Drilling	08:40	08:45	0.08	2462	2482	20	24	240.0	55	9	558	1800		27.06	101.00	6.53	
3	10-Jun	Sliding	08:50	08:55	0.08	2482	2494	12	30	144.0	55	9	558	1800	-150	26.29	102.00	6.53	
3	10-Jun	Drilling	08:55	09:00	0.08	2494	2514	20	24	240.0	55	9	558	1800		25.09	102.00	4.93	
3	10-Jun	Sliding	09:05	09:10	0.08	2514	2525	11	30	132.0	55	9	558	1800	180	24.60	103.00	4.93	
3	10-Jun	Drilling	09:10	09:20	0.17	2525	2544	19	24	114.0	55	9	558	1800		23.75	104.00	4.60	
3	10-Jun	Sliding	09:25	09:35	0.17	2544	2554	10	30	60.0	55	9	558	1800	180	23.30	104.00	4.60	
3	10-Jun	Drilling	09:35	09:45	0.17	2554	2576	22	24	132.0	55	9	558	1800		22.34	105.00	4.29	
3	10-Jun	Sliding	09:50	09:55	0.08	2576	2584	8	30	96.0	55	9	558	1800	180	22.00	105.00	4.29	
3	10-Jun	Drilling	09:55	10:00	0.08	2584	2608	24	24	288.0	55	9	558	1800		21.01	104.00	3.66	
3	10-Jun	Sliding	11:55	12:00	0.08	2608	2614	6	30	72.0	55	9	558	1800	180	20.79	104.00	3.66	
3	10-Jun	Drilling	12:00	12:15	0.25	2614	2639	25	24	100.0	55	9	334	901		19.91	104.00	3.11	
3	10-Jun	Sliding	12:20	12:25	0.08	2639	2645	6	30	72.0	55	9	334	901	180	19.73	104.00	3.11	
3	10-Jun	Drilling	12:25	12:40	0.25	2645	2670	25	24	100.0	55	9	334	901		19.00	104.00	2.32	
3	10-Jun	Sliding	12:45	13:00	0.25	2670	2676	6	30	24.0	55	9	334	901	180	18.86	104.00	2.32	
3	10-Jun	Drilling	13:00	13:45	0.75	2676	2702	26	24	34.7	55	9	334	901		18.26	104.00	2.26	
3	10-Jun	Sliding	14:00	14:05	0.08	2702	2708	6	30	72.0	55	9	558	1950	180	18.12	104.00	2.26	
3	10-Jun	Drilling	14:05	14:15	0.17	2708	2733	25	24	150.0	55	9	558	1950		17.52	104.00	3.55	
3	10-Jun	Sliding	14:20	14:25	0.08	2733	2740	7	30	84.0	55	9	558	1950	180	17.28	104.00	3.55	
3	10-Jun	Drilling	14:25	14:30	0.08	2740	2765	25	24	300.0	55	9	558	1950		16.39	105.00	3.46	
3	10-Jun	Sliding	14:35	14:40	0.08	2765	2773	8	30	96.0	55	9	558	1950	-165	16.12	105.00	3.46	
3	10-Jun	Drilling	14:40	14:45	0.08	2773	2797	24	24	288.0	55	9	558	1950		15.27	104.00	4.48	
3	10-Jun	Sliding	14:50	14:55	0.08	2797	2806	9	30	108.0	55	9	558	1950	-165	14.91	105.00	4.48	

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	10-Jun	Drilling	14:55	15:05	0.17	2806	2828	22	24	132.0	55	9	558	1950		14.05	102.00	4.39	
3	10-Jun	Sliding	15:10	15:15	0.08	2828	2836	8	30	96.0	55	9	558	1950	-150	13.74	103.00	4.39	
3	10-Jun	Drilling	15:15	15:25	0.17	2836	2859	23	24	138.0	55	9	558	1950		12.83	99.00	4.36	
3	10-Jun	Sliding	15:30	15:40	0.17	2859	2867	8	30	48.0	55	9	558	1950	180	12.48	99.00	4.36	
3	10-Jun	Drilling	15:40	15:45	0.08	2867	2886	19	24	228.0	55	9	558	1950		11.66	99.00	4.59	
3	10-Jun	Sliding	15:50	15:55	0.08	2886	2894	8	30	96.0	55	9	558	1950	180	11.31	100.00	4.59	
3	10-Jun	Drilling	15:55	16:05	0.17	2894	2917	23	24	138.0	55	9	558	1950		10.48	102.00	2.05	
3	10-Jun	Sliding	16:10	16:15	0.08	2917	2925	8	30	96.0	55	9	558	1950	165R	10.36	102.00	2.05	
3	10-Jun	Drilling	16:15	16:25	0.17	2925	2948	23	24	138.0	55	9	558	1950		10.00	104.00	2.29	
3	10-Jun	Sliding	16:30	16:40	0.17	2948	2956	8	30	48.0	55	10	558	1950	165R	9.82	104.00	2.29	
3	10-Jun	Drilling	16:40	16:50	0.17	2956	2979	23	24	138.0	55	10	558	1950		9.28	103.00	3.12	
3	10-Jun	Sliding	16:55	17:07	0.20	2979	2988	9	30	45.0	55	10	558	1950	165R	9.02	104.00	3.12	
3	10-Jun	Drilling	17:07	17:17	0.17	2988	3011	23	24	138.0	55	10	558	1950		8.32	106.00	5.18	
3	10-Jun	Sliding	17:20	17:25	0.08	3011	3021	10	30	120.0	55	10	558	1950	165R	7.98	109.00	5.18	
3	10-Jun	Drilling	17:25	17:33	0.13	3021	3042	21	24	157.5	55	10	558	1950		7.26	96.00	4.88	
3	10-Jun	Sliding	17:36	17:44	0.13	3042	3052	10	30	75.0	55	10	558	1950	165R	6.77	97.00	4.88	
3	10-Jun	Drilling	17:44	17:58	0.23	3052	3074	22	24	94.3	55	10	558	1950		5.78	98.00	3.76	
3	10-Jun	Sliding	18:01	18:04	0.05	3074	3082	8	24	160.0	55	10	558	1950	160R	5.50	100.00	3.76	
3	10-Jun	Drilling	18:04	18:10	0.10	3082	3105	23	24	230.0	55	10	558	1950		4.77	103.00	2.02	
3	10-Jun	Drilling	18:14	18:37	0.38	3105	3136	31	24	80.9	55	10	558	1950		4.18	104.00	1.28	
3	10-Jun	Drilling	18:40	18:47	0.12	3136	3168	32	24	274.3	55	10	558	1950		3.78	104.00	1.47	
3	10-Jun	Drilling	18:50	19:00	0.17	3168	3199	31	24	186.0	55	10	558	1950		3.44	99.00	1.66	
3	10-Jun	Drilling	19:03	19:13	0.17	3199	3230	31	24	186.0	55	10	558	1950		3.02	104.00	1.79	
3	10-Jun	Drilling	19:15	19:25	0.17	3230	3262	32	24	192.0	55	10	558	1950		2.56	99.00	1.25	
3	10-Jun	Drilling	19:28	19:36	0.13	3262	3293	31	24	232.5	55	10	558	1950		2.49	105.00	2.63	
3	10-Jun	Sliding	19:39	19:45	0.10	3293	3315	22	24	220.0	55	10	558	1950	20R	3.07	106.00	2.63	
3	10-Jun	Drilling	19:45	19:55	0.17	3315	3325	10	24	60.0	55	10	558	1950		3.35	106.00	3.05	
3	10-Jun	Sliding	19:58	20:06	0.13	3325	3337	12	24	90.0	55	10	558	1950	20R	3.71	107.00	3.05	
3	10-Jun	Drilling	20:06	20:15	0.15	3337	3356	19	24	126.7	55	10	558	1950		4.18	105.00	0.92	
3	10-Jun	Drilling	20:18	20:28	0.17	3356	3388	32	24	192.0	55	10	558	1950		4.16	101.00	1.69	
3	10-Jun	Drilling	20:31	20:42	0.18	3388	3419	31	24	169.1	55	10	558	1950		3.64	99.00	2.14	
3	10-Jun	Drilling	20:45	20:57	0.20	3419	3451	32	24	160.0	55	10	558	1950		2.94	102.00	2.93	
3	10-Jun	Drilling	21:00	21:18	0.30	3451	3482	31	24	103.3	55	10	558	1950		2.54	96.00	0.00	

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

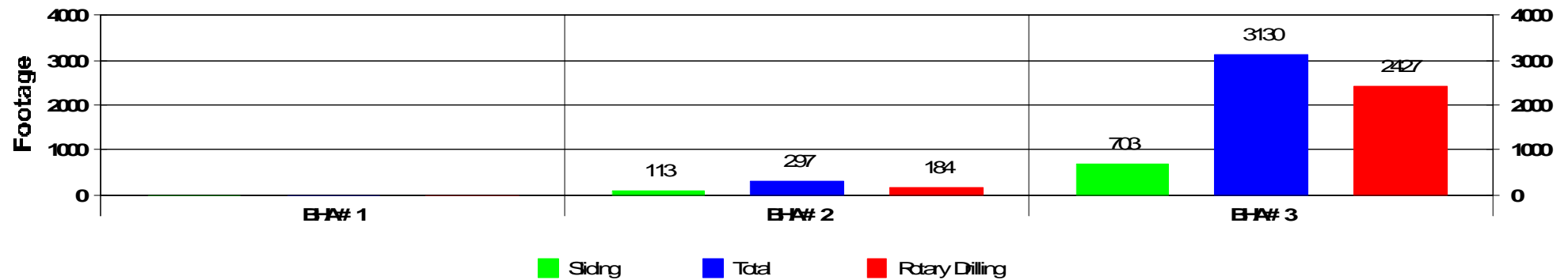
#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	10-Jun	Drilling	21:21	21:50	0.48	3482	3533	51	24	105.5	55	10	558	1950		2.54	96.00	0.00	

Total Drilled:		3130	Avg. Total ROP:		143.25	DEPTH% - TIME %	
Total Rotary Drilled:		2427	Avg. Rotary ROP:		152.80	Percent Rotary: 77.54 - 72.69	
Total Drilled Sliding:		703	Avg. Slide ROP:		117.82	Percent Slide: 22.46 - 27.31	

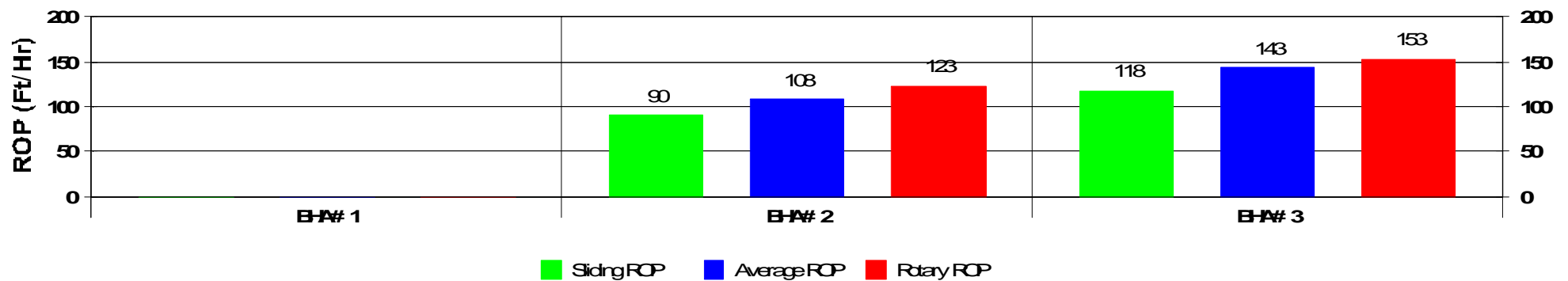


JOB NO.:	330615DEF286989	FIELD:	San Juan Basin	
COMPANY:	B.P.	Township:	33N	
LOCATION:	SEC 2 T33N R8W	SECT/RANGE:	2	8W
RIG NAME:	Aztec 507	COMMENT		
STATE:	Colorado			
COUNTY:	La Plata			
WELL NAME:	Gallegos Bonafacio A 3			

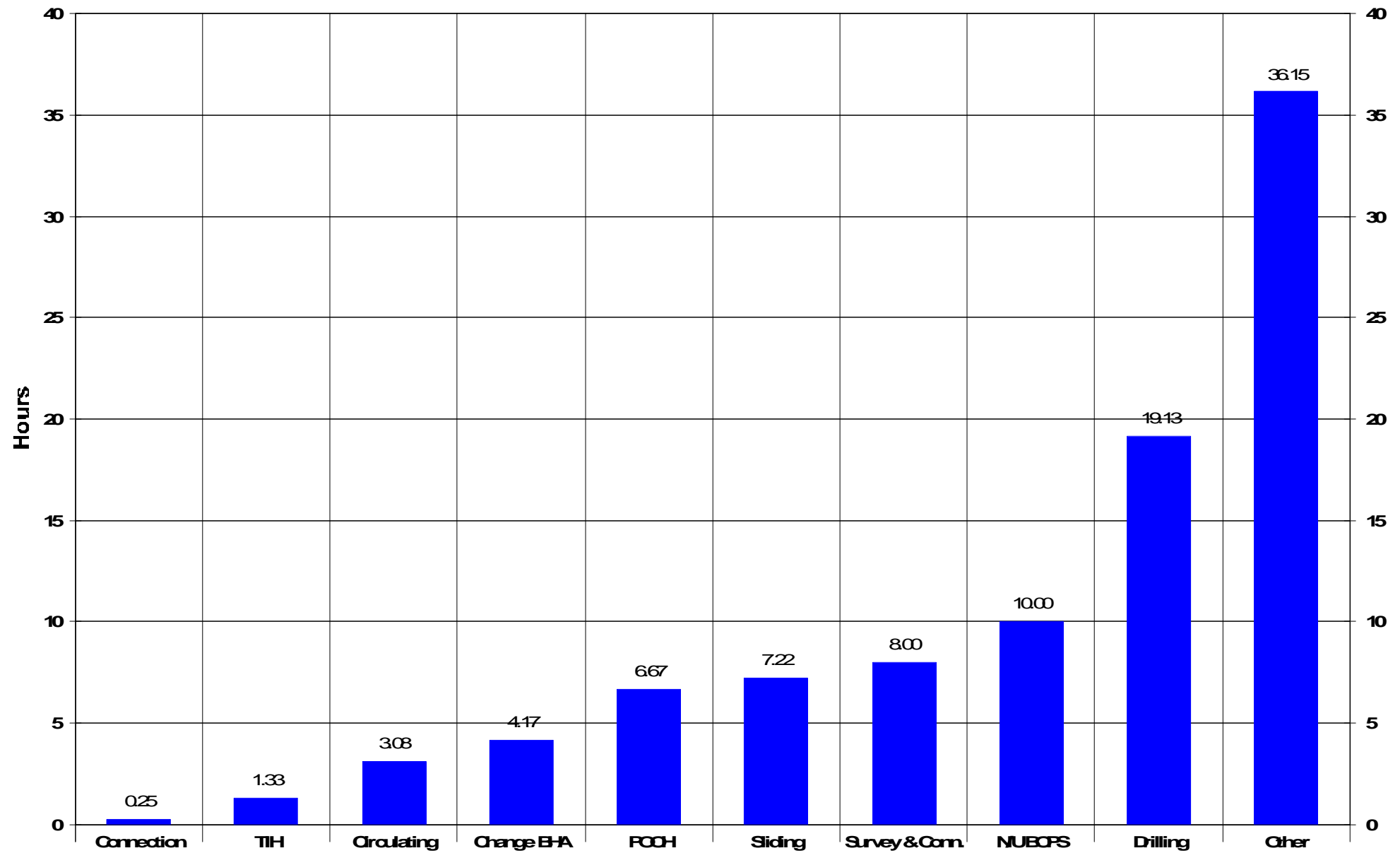
Footage Drilled with BHA



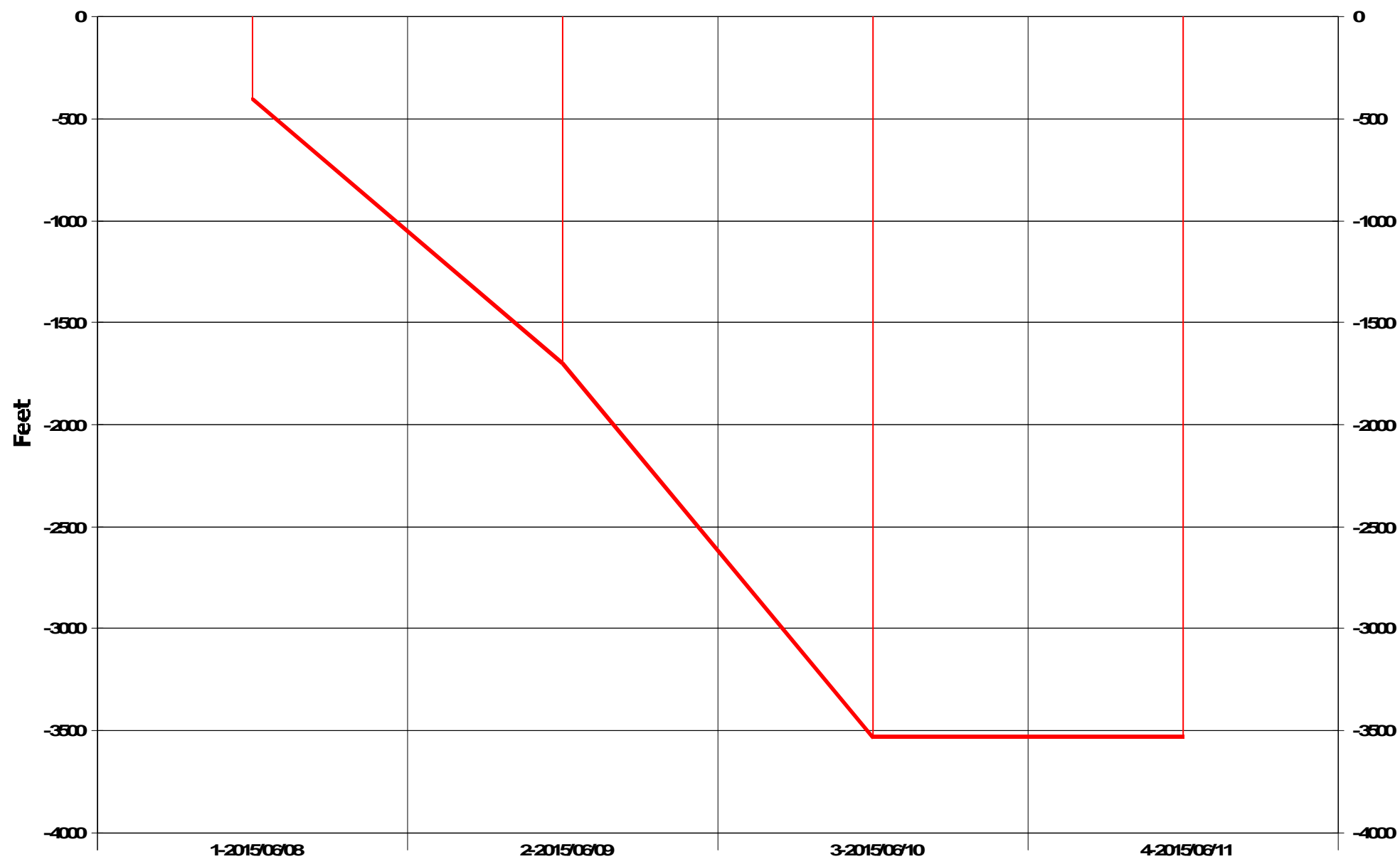
ROP vs BHA



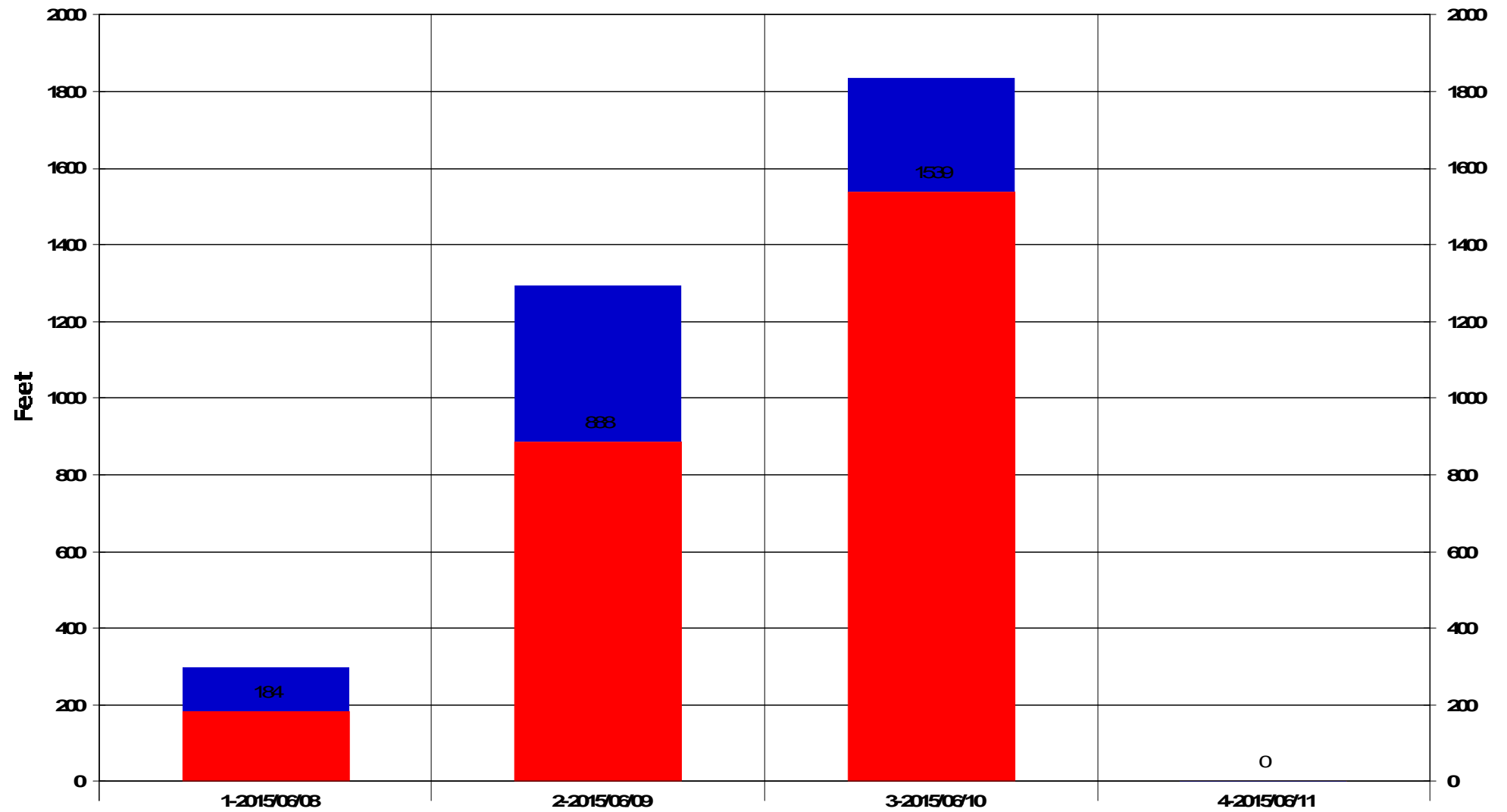
Activity Histogram



Measured Depth vs Days



Daily Footage



Rotary Drilling Siding

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