

Final PvA - Rev8

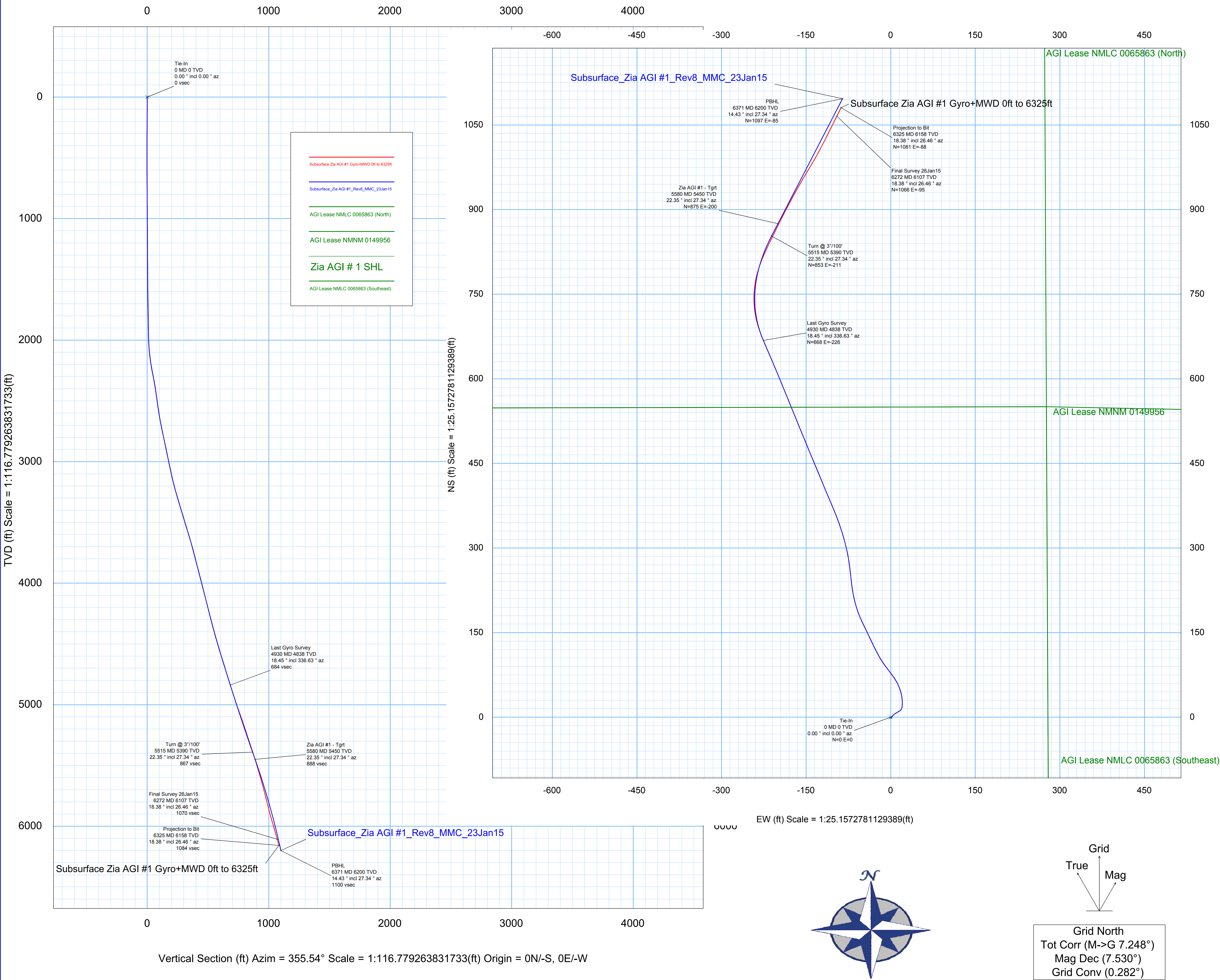
PB Energy

OCD – HOBBS
08/04/2016



Borehole:				Well:				Field:				Structure:			
Original Borehole				Zia AGI #1				NM Lea County (NAD 83)				PD 107			
Gravity & Magnetic Parameters								Surface Location				Miscellaneous			
NAD83 New Mexico State Plane, Eastern Zone, US Feet															
Model:	HDGM 2014	Dip:	60.656°	Date:	03-Jan-2015	Lat:	N 32 38 40.25	Northing:	598600.5ftUS	Grid Conv:	0.2817°	Slot:	AGI # 1	TVD Ref:	RKB(3572ft above MSL)
MagDec:	7.53°	FS:	48645.384nT	Gravity FS:	998.506mgn (9.80665 Based)	Lon:	W 103 48 40.02	Easting:	702076.5ftUS	Scale Fact:	0.99993868	Plan:	Gyro+MWD 0ft to 6325ft		

Critical Points																
Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	Sub-Sea TVD	VS(ft)	NS(ft)	EW(ft)	Latitude(deg)	Longitude(deg)	Easting(ftUS)	Northing(ftUS)	Closure(ft)	Closure Azimuth(deg)	DLS	Tool
Tie-In	4930.00	18.45	336.63	4838.05	1266.05	683.49	667.96	-225.83	N 32 38 46.873	W 103 48 42.626	701850.68	599268.42	705.11	341.32	0.35	102.31
Turn @ 3°/100'	5514.52	22.35	27.34	5389.90	1817.90	866.89	853.05	-211.35	N 32 38 48.703	W 103 48 42.446	701865.16	599453.49	878.84	346.08	3.00	0.00
Zia AGI #1 - Tgrt	5579.50	22.35	27.34	5450.00	1878.00	887.90	875.00	-200.00	N 32 38 48.920	W 103 48 42.312	701876.51	599475.44	897.57	347.12	0.00	-180.00
PBHL	6370.50	14.43	27.34	6200.00	2628.00	1099.84	1096.51	-85.46	N 32 38 51.106	W 103 48 40.959	701991.04	599696.94	1099.84	355.54	1.00	



Surface Location													
Northing:		598600.5	Easting:		702076.5	Latitude:		N 32 38 40.25	Longitude:	W 103 48 40.02	VSec Azimuth:		355.543
Target Description					Grid Coord							Local Coord	
Target Name		Shape	Dimension	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)S(-)		E(+)W(-)	
Zia AGI # 1 SHL		Point	N/A	N 32 38 40.25	W 103 48 40.02	598600.50	702076.50	0.00	0.00	0.00		0.00	
AGI Lease NMLC 0065863 (North)		Polyline	N/A	N 32 47 39.87	W 105 48 36.84	655906.93	87486.48	3572.00	104900.12	57310.06		-614628.94	
AGI Lease NMNM 0149956		Polyline	N/A	N 32 47 39.87	W 105 48 36.84	655906.93	87486.48	3572.00	104900.12	57310.06		-614628.94	
AGI Lease NMLC 0065863 (Southeast)		Polyline	N/A	N 32 47 39.87	W 105 48 36.84	655906.93	87486.48	3572.00	104900.12	57310.06		-614628.94	

1

Originator

Manuela Corbett

2

DE Sign Off Authority

3

D&M Line Manager

Irving Marzano

4

Client

PB Energy

Copy number

for

Plan ref

Subsurface Zia AGI #1 Gyro+MWD 0ft to 6325ft

Drawing ref

Copy number

Date

26-Jan-2015

of 3

Grid North
Tot Corr (M->G 7.248°)
Mag Dec (7.530°)
Grid Conv (0.282°)