

ATTACHMENT 3
DIRECTIONAL PLAN

OCT 28 2014

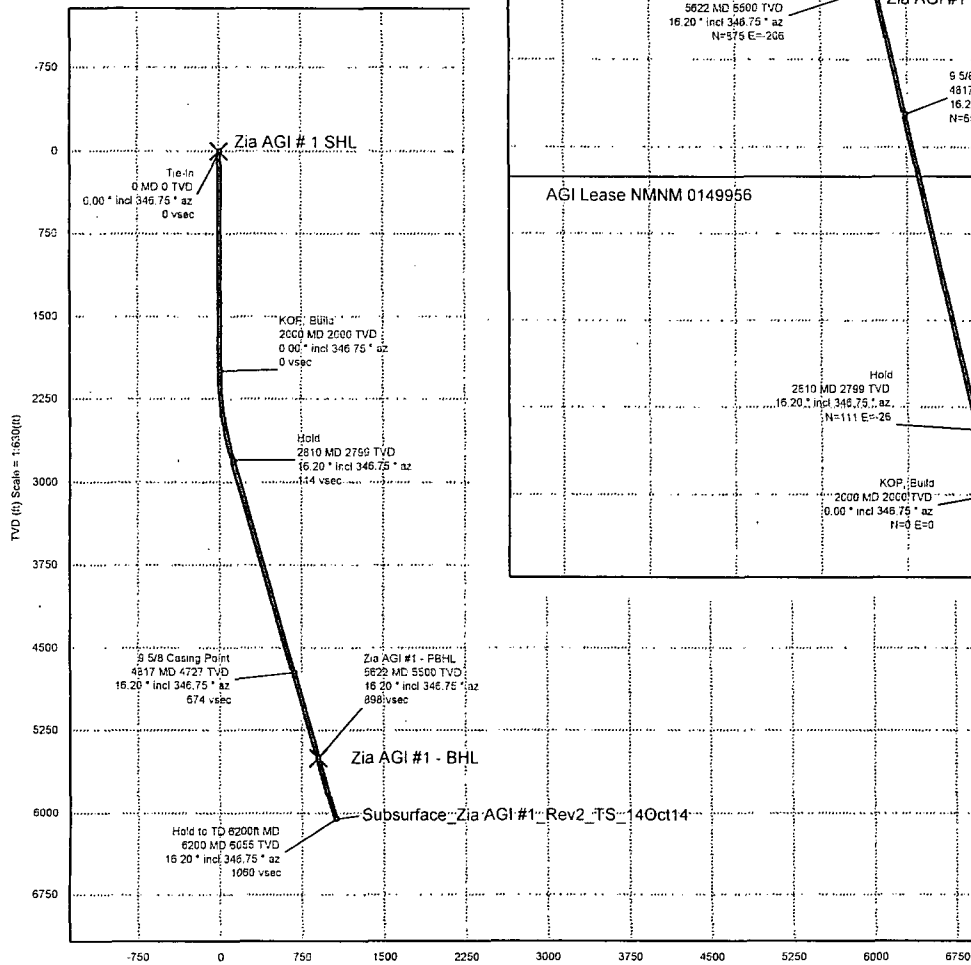
Zia

PATHFINDER
A Schlumberger Company

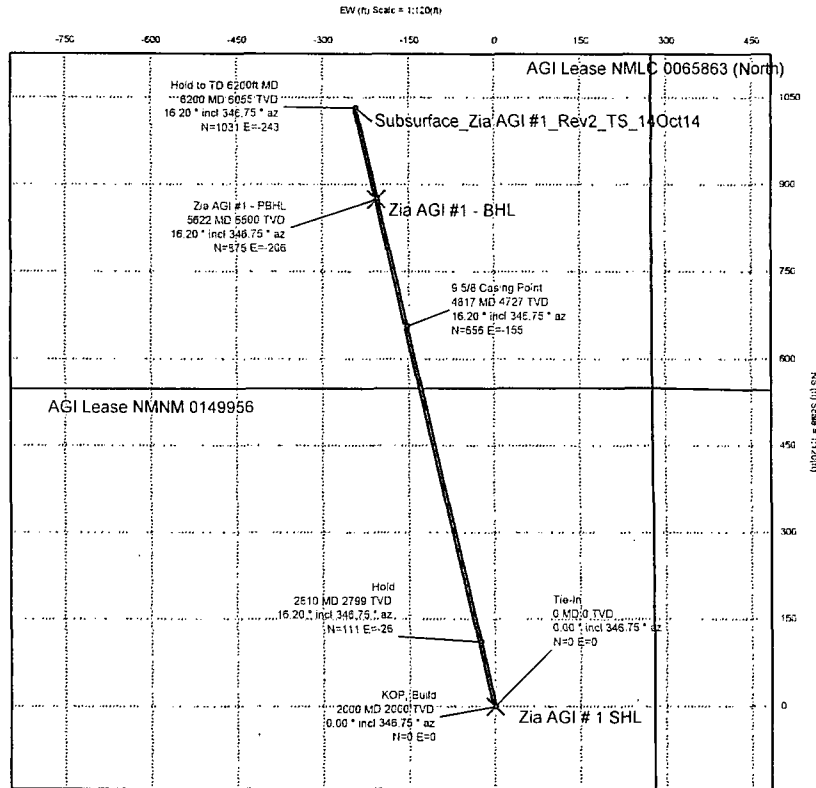
Borehole:	Well:	Field:	Structure:
Original Borehole	Subsurface Zia AGI #1	NM Lea County (NAD 83)	Subsurface Zia AGI #1
Gravity & Magnetic Parameters			
Model: BGGM 2014 Dip: 60.447° Date: 14-Oct-2014	Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet		Miscellaneous
MagDec: 7.488° FS: 48465.694nT Gravity FS: 988.506mgN (8.80655 Based)	Lat: N 32 38 40.25 Northing: 598600.5705 Grid Conv: 0.2817°	Slot: AGI #1 TVD Ref: RKB(3572ft above MSL)	Plan: Subsurface_Zia AGI #1_Rev2_TS_14Oct14
	Lon: W 103 48 40.02 Easting: 702076.5705 Scale Fact: 0.99993868		



Rev2



Vertical Section (ft) Azim = 346.745° Scale = 1:650(ft) Origin = 0NW-S, 0E/W



AGI Lease NMLC 0065863 (Southeast)



Grid North
Tot Corr (M->G 7.206°)
Mag Dec (7.488°)
Grid Conv (0.282°)

North		East		Surface Location		Longitude		VSec Azimuth		343.745	
598600.5		702076.5		N 32 38 40.25		W 103 48 40.02					
Target Description		Latitude		Longitude		Grid Coord		VSec		Local Coord	
Target Name	Shape	Dimension	Latitude	Longitude	North	East	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	702075.50	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	87485.48	3572.00	195708.63	67310.06	-614528.94	
AGI Lease NMLC 0149956	Polyline	N/A	N 32 47 39.87	W 105 48 36.84	655906.93	87485.48	3572.00	195708.63	67310.06	-614528.94	
AGI Lease NMLC 0065863 (Southeast)	Polyline	N/A	N 32 47 39.87	W 105 48 36.84	655906.93	87485.48	3572.00	195708.63	67310.06	-614528.94	
Zia AGI #1 - BHL	Point	N/A	N 32 38 49.92	W 103 48 42.38	599475.00	701870.50	5500.00	899.49	874.56	-205.01	

Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Tie-In	0.00	0.00	346.74	0.00	0.00	0.00	0.00	
KOP, Build	2000.00	0.00	346.74	2000.00	0.00	0.00	0.00	0.00
Hold	2810.10	16.20	346.74	2799.35	113.78	110.75	-26.09	2.00
9 5/8 Casing Point	4817.49	16.20	346.74	4727.01	673.89	655.94	-154.51	0.00
Zia AGI #1 - PBHL	5622.45	16.20	346.74	5500.00	898.49	874.56	-205.01	0.00
Hold to TD 6200ft MD	6200.00	16.20	346.74	6054.61	1059.64	1031.41	-242.96	0.00

CONTROLLED	
Plan ref	Subsurface_Zia AGI #1_Rev2_TS_14Oct14
Drawing ref	
Copy number	of 3
Date	14-Oct-2014
1	Originator
2	DE Sign Off Authority
3	D&M Line Manager
4	Client
Copy number	for

Subsurface_Zia AGI #1_Rev2_TS_14Oct14 Proposal Geodetic Report

(Non-Def Plan)

Report Date:	October 14, 2014 - 01:19 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Zia	Vertical Section Azimuth:	346.745 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Subsurface Zia AGI #1 / AGI #1	TVD Reference Datum:	RKB
Well:	Subsurface Zia AGI #1	TVD Reference Elevation:	3572.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3547.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.488 °
Survey Name:	Subsurface_Zia AGI #1_Rev2_TS_14Oct14	Total Gravity Field Strength:	998.5064mgn (9.80665 Based)
Survey Date:	July 16, 2014	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	16.202 ° / 1059.643 ft / 4.245 / 0.175	Total Magnetic Field Strength:	48465.694 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	60.447 °
Location Lat / Long:	N 32° 38' 40.25280", W 103° 48' 40.02301"	Declination Date:	October 14, 2014
Location Grid N/E Y/X:	N 598600.500 ftUS, E 702076.500 ftUS	Magnetic Declination Model:	BGGM 2014
CRS Grid Convergence Angle:	0.2817 °	North Reference:	Grid North
Grid Scale Factor:	0.99993868	Grid Convergence Used:	0.2817 °
Version / Patch:	2.7.1043.0	Total Corr Mag North->Grid North:	7.2068 °
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	0.00	0.00	346.74	0.00	0.00	0.00	0.00	N/A	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
KOP: Build	2000.00	0.00	346.74	2000.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
Hold	2810.10	16.20	346.74	2799.35	113.78	110.75	-26.09	2.00	598711.24	702050.41	N 32 38 41.35	W 103 48 40.32
9 5/8 Casing Point	4817.49	16.20	346.74	4727.01	673.89	655.94	-154.51	0.00	599256.39	701922.00	N 32 38 46.75	W 103 48 41.79
Zia AGI #1 - PBHL	5622.45	16.20	346.74	5500.00	898.49	874.56	-206.01	0.00	599475.00	701870.50	N 32 38 48.92	W 103 48 42.38
Hold to TD												
6200ft MD	6200.00	16.20	346.74	6054.61	1059.64	1031.41	-242.96	0.00	599631.85	701833.55	N 32 38 50.47	W 103 48 42.81

Survey Type: Non-Def Plan

Survey Error Model: ISCSWA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	25.000	1/100.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Subsurface_Zia AGI
	1	25.000	2000.000	1/100.000	30.000	SLB_MWD-POOR	Original Borehole / Subsurface_Zia AGI
	1	2000.000	6200.000	1/100.000	30.000	SLB_MWD-STD	Original Borehole / Subsurface_Zia AGI

Subsurface_Zia AGI #1_Rev2_TS_14Oct14 Proposal Geodetic Report

(Non-Def Plan)

Report Date: October 14, 2014 - 01:18 PM
 Client: Zia
 Field: NM Lea County (NAD 83)
 Structure / Slot: Subsurface_Zia AGI #1 / AGI #1
 Well: Subsurface_Zia AGI #1
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Subsurface_Zia AGI #1_Rev2_TS_14Oct14
 Survey Date: July 16, 2014
 Tort / AHD / DDI / ERO Ratio: 16.202' / 1059.643 ft / 4.245 / 0.175
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 38' 40.25280", W 103° 48' 40.02301"
 Location Grid N/E Y/X: N 598600.500 RUS, E 702076.500 HUS
 CRS Grid Convergence Angle: 0.2817°
 Grid Scale Factor: 0.99993868
 Version / Patch: 2.7.1043.0

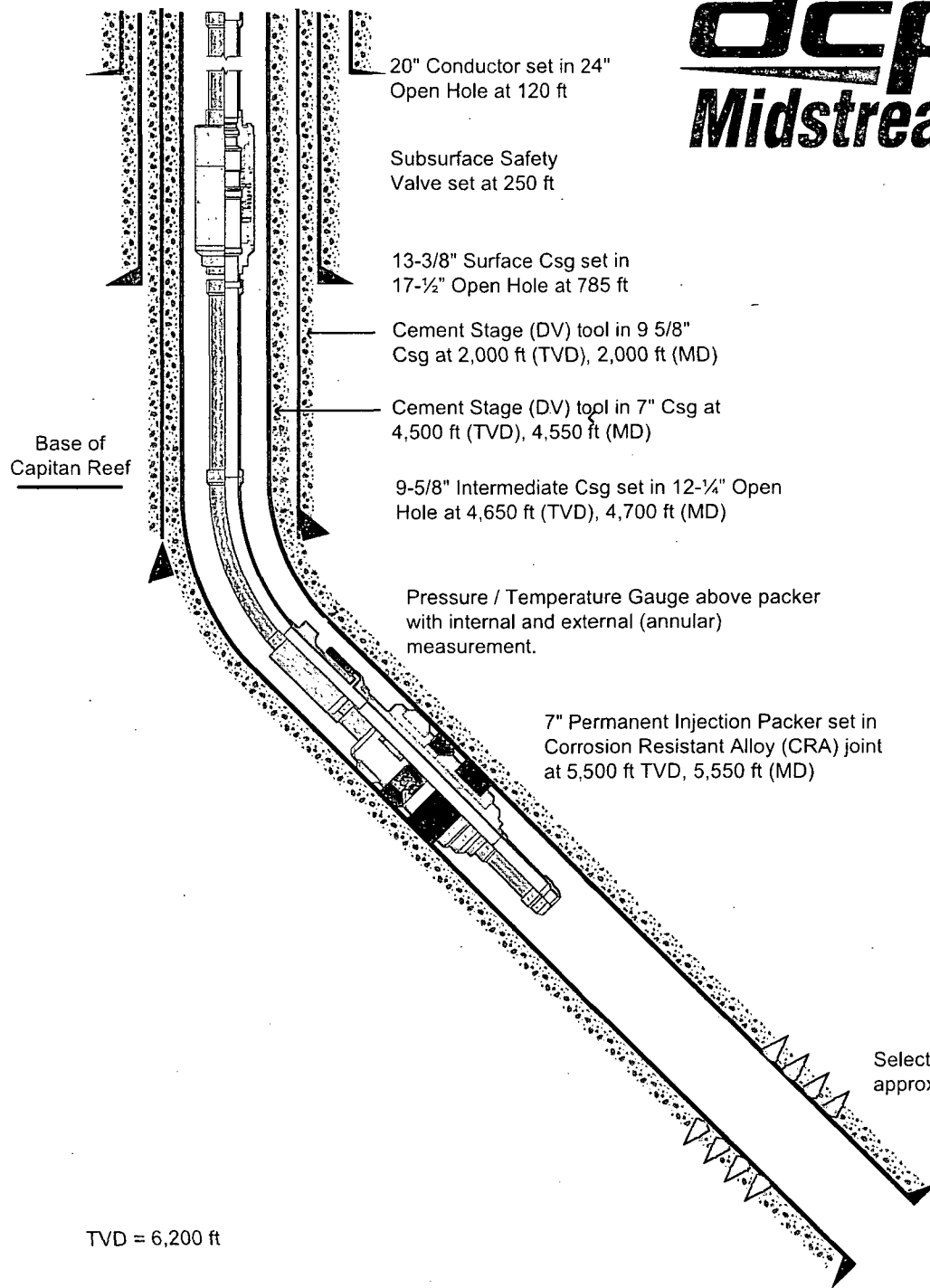
Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 346.745° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3572.000 ft above MSL
 Seabed / Ground Elevation: 3547.000 ft above MSL
 Magnetic Declination: 7.488°
 Total Gravity Field Strength: 998.5064mgm (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48465.694 nT
 Magnetic Dip Angle: 60.447°
 Declination Date: October 14, 2014
 Magnetic Declination Model: BGGM 2014
 North Reference: Grid North
 Grid Convergence Used: 0.2817°
 Total Corr Mag North->Grid North: 7.2068°
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
Tie-In	0.00	0.00	346.74	0.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	100.00	0.00	346.74	100.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	200.00	0.00	346.74	200.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	300.00	0.00	346.74	300.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	400.00	0.00	346.74	400.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	500.00	0.00	346.74	500.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	600.00	0.00	346.74	600.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	700.00	0.00	346.74	700.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	800.00	0.00	346.74	800.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	900.00	0.00	346.74	900.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1000.00	0.00	346.74	1000.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1100.00	0.00	346.74	1100.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1200.00	0.00	346.74	1200.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1300.00	0.00	346.74	1300.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1400.00	0.00	346.74	1400.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1500.00	0.00	346.74	1500.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1600.00	0.00	346.74	1600.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1700.00	0.00	346.74	1700.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1800.00	0.00	346.74	1800.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	1900.00	0.00	346.74	1900.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
KOP, Build	2000.00	0.00	346.74	2000.00	0.00	0.00	0.00	0.00	598600.50	702076.50	N 32 38 40.25	W 103 48 40.02
	2100.00	2.00	346.74	2099.98	1.75	1.70	-0.40	2.00	598602.20	702076.10	N 32 38 40.25	W 103 48 40.03
	2200.00	4.00	346.74	2199.84	6.98	6.79	-1.60	2.00	598607.29	702074.90	N 32 38 40.32	W 103 48 40.04
	2300.00	6.00	346.74	2299.45	15.69	15.28	-3.60	2.00	598615.77	702072.90	N 32 38 40.25	W 103 48 40.06
	2400.00	8.00	346.74	2398.70	27.88	27.14	-6.39	2.00	598627.64	702070.11	N 32 38 40.52	W 103 48 40.10
	2500.00	10.00	346.74	2497.47	43.52	42.38	-9.98	2.00	598642.86	702066.52	N 32 38 40.67	W 103 48 40.14
	2600.00	12.00	346.74	2595.62	62.60	60.93	-14.35	2.00	598661.43	702062.15	N 32 38 40.86	W 103 48 40.19
	2700.00	14.00	346.74	2693.06	85.10	82.83	-19.51	2.00	598683.32	702056.99	N 32 38 41.07	W 103 48 40.25
	2800.00	16.00	346.74	2789.64	110.98	108.02	-25.45	2.00	598708.51	702051.06	N 32 38 41.32	W 103 48 40.31
Hold	2810.10	16.20	346.74	2799.35	113.78	110.75	-26.09	2.00	598711.24	702050.41	N 32 38 41.35	W 103 48 40.32
	2900.00	16.20	346.74	2885.68	138.86	135.16	-31.84	0.00	598735.65	702044.66	N 32 38 41.59	W 103 48 40.39
	3000.00	16.20	346.74	2981.70	166.76	162.32	-38.24	0.00	598762.81	702038.27	N 32 38 41.86	W 103 48 40.46
	3100.00	16.20	346.74	3077.73	194.67	189.48	-44.63	0.00	598789.97	702031.87	N 32 38 42.13	W 103 48 40.53
	3200.00	16.20	346.74	3173.76	222.57	216.64	-51.03	0.00	598817.13	702025.47	N 32 38 42.40	W 103 48 40.61
	3300.00	16.20	346.74	3269.79	250.47	243.80	-57.43	0.00	598844.28	702019.07	N 32 38 42.67	W 103 48 40.68
	3400.00	16.20	346.74	3365.82	278.37	270.96	-63.83	0.00	598871.44	702012.68	N 32 38 42.94	W 103 48 40.75
	3500.00	16.20	346.74	3461.85	306.28	298.12	-70.23	0.00	598898.60	702006.28	N 32 38 43.21	W 103 48 40.83
	3600.00	16.20	346.74	3557.87	334.18	325.28	-76.62	0.00	598925.76	701999.88	N 32 38 43.47	W 103 48 40.90
	3700.00	16.20	346.74	3653.90	362.08	352.44	-83.02	0.00	598952.91	701993.48	N 32 38 43.74	W 103 48 40.97
	3800.00	16.20	346.74	3749.93	389.98	379.59	-89.42	0.00	598980.07	701987.09	N 32 38 44.01	W 103 48 41.05
	3900.00	16.20	346.74	3845.96	417.89	406.75	-95.82	0.00	599007.23	701980.69	N 32 38 44.28	W 103 48 41.12
	4000.00	16.20	346.74	3941.99	445.79	433.91	-102.21	0.00	599034.39	701974.29	N 32 38 44.55	W 103 48 41.19
	4100.00	16.20	346.74	4038.02	473.69	461.07	-108.61	0.00	599061.54	701967.90	N 32 38 44.82	W 103 48 41.27
	4200.00	16.20	346.74	4134.05	501.59	488.23	-115.01	0.00	599088.70	701961.50	N 32 38 45.09	W 103 48 41.34
	4300.00	16.20	346.74	4230.07	529.50	515.39	-121.41	0.00	599115.86	701955.10	N 32 38 45.36	W 103 48 41.41
	4400.00	16.20	346.74	4326.10	557.40	542.55	-127.80	0.00	599143.02	701948.70	N 32 38 45.63	W 103 48 41.49
	4500.00	16.20	346.74	4422.13	585.30	569.71	-134.20	0.00	599170.17	701942.31	N 32 38 45.90	W 103 48 41.56
	4600.00	16.20	346.74	4518.16	613.20	596.87	-140.60	0.00	599197.33	701935.91	N 32 38 46.17	W 103 48 41.63
	4700.00	16.20	346.74	4614.19	641.11	624.03	-147.00	0.00	599224.49	701929.51	N 32 38 46.43	W 103 48 41.71
	4800.00	16.20	346.74	4710.22	669.01	651.19	-153.40	0.00	599251.64	701923.11	N 32 38 46.70	W 103 48 41.78
9 5/8 Casing Point	4817.49	16.20	346.74	4727.01	673.89	655.94	-154.51	0.00	599256.39	701922.00	N 32 38 46.75	W 103 48 41.79
	4900.00	16.20	346.74	4806.24	696.91	678.34	-159.79	0.00	599278.80	701916.72	N 32 38 46.97	W 103 48 41.85
	5000.00	16.20	346.74	4902.27	724.81	705.50	-166.19	0.00	599305.96	701910.32	N 32 38 47.24	W 103 48 41.93
	5100.00	16.20	346.74	4998.30	752.72	732.66	-172.59	0.00	599333.12	701903.92	N 32 38 47.51	W 103 48 42.00
	5200.00	16.20	346.74	5094.33	780.62	759.82	-178.99	0.00	599360.27	701897.53	N 32 38 47.78	W 103 48 42.07
	5300.00	16.20	346.74	5190.36	808.52	786.98	-185.38	0.00	599387.43	701891.13	N 32 38 48.05	W 103 48 42.15
	5400.00	16.20	346.74	5286.39	836.42	814.14	-191.78	0.00	599414.59	701884.73	N 32 38 48.32	W 103 48 42.22
	5500.00	16.20	346.74	5382.41	864.33	841.30	-198.18	0.00	599441.75	701878.33	N 32 38 48.59	W 103 48 42.29
	5600.00	16.20	346.74	5478.44	892.23	868.46	-204.58	0.00	599468.90	701871.94	N 32 38 48.86	W 103 48 42.37
Zia AGI #1 - PBHL	5622.45	16.20	346.74	5500.00	898.49	874.56	-206.01	0.00	599475.00	701870.50	N 32 38 48.92	W 103 48 42.38
	5700.00	16.20	346.74	5574.47	920.13	895.62	-210.97	0.00	599496.06	701865.54	N 32 38 49.12	W 103 48 42.44
	5800.00	16.20	346.74	5670.50	948.03	922.78	-217.37	0.00	599523.22	701859.14	N 32 38 49.39	W 103 48 42.51
	5900.00	16.20	346.74	5766.53	975.94	949.94	-223.77	0.00	599550.38	701852.74	N 32 38 49.66	W 103 48 42.59
	6000.00	16.20	346.74	5862.56	1003.84	977.09	-230.17	0.00	599577.53	701846.35	N 32 38 49.93	W 103 48 42.66
	6100.00	16.20	346.74	5958.58	1031.74	1004.25	-236.57	0.00	599604.69	701839.95	N 32 38 50.20	W 103 48 42.73
Hold to TD 6200ft MD	6200.00	16.20	346.74	6054.61	1059.64	1031.41	-242.96	0.00	599631.85	701833.55	N 32 38 50.47	W 103 48 42.81

Survey Type: Non-Def Plan

Survey Error Model: ISCSWA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey				
	1	0.000	25.000	1/100.000	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Subsurface_Zia AGI				
	1	25.000	2000.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Subsurface_Zia AGI				
	1	2000.000	6200.000	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Subsurface_Zia AGI				



DCP MIDSTREAM, LP
ZIA AGI #1

Location: 2,100 FSL & 950' FWL
STR S19-T19S-R32E
County, St.: LEA COUNTY, NEW MEXICO

CONDUCTOR PIPE

20" Conductor set at 120 ft.
Cemented to surface

SURFACE CASING

13-3/8", 48#, J55, ST&C set at 785 ft MD
Cemented to surface

INTERMEDIATE CASING

9-5/8", 40#, J55, LT&C set at 4,700 ft MD (4,650 ft TVD)
Cemented to surface

PRODUCTION CASING:

7 5/8", 29.7#, HCL-80 LT&C, from surface to 300 ft MD (300 ft TVD)
7", 26#, HCL-80 LT&C, from 300 ft to 5,320 ft MD (5,220 ft TVD)
7", 26#, 28Cr, VAM TOP from 5,320 ft to 5,620 ft MD (5,220 ft to 5,520 ft TVD)
7", 26#, HCL-80 LT&C, from 5,620 to 6,300 ft MD (5,520 to 6,200 ft TVD)
Cemented to surface

PACKER:

Permanent injection packer with Incaloy components set in Corrosion Resistant Alloy (CRA) csg at 5,550 ft MD (5,450 ft TVD)

TUBING:

Subsurface Safety Valve at 250 ft MD (250 ft TVD)
3-1/2", 9.3#/ft, L80 (fiberglass lined) from surface to 5,550 ft MD (5,450 ft TVD)
Premium thread utilizing metal to metal sealing in collars

BOTTOM HOLE LOCATION AT 5,500 FT (TVD):

874' North and 206' West of surface location

Selective perforations in Brushy Canyon from approximately 5,500 ft to 6,000 ft (TVD)

7" Production Csg set in 8-1/2" Open Hole at 6,200 ft (TVD), 6,300 ft (MD)

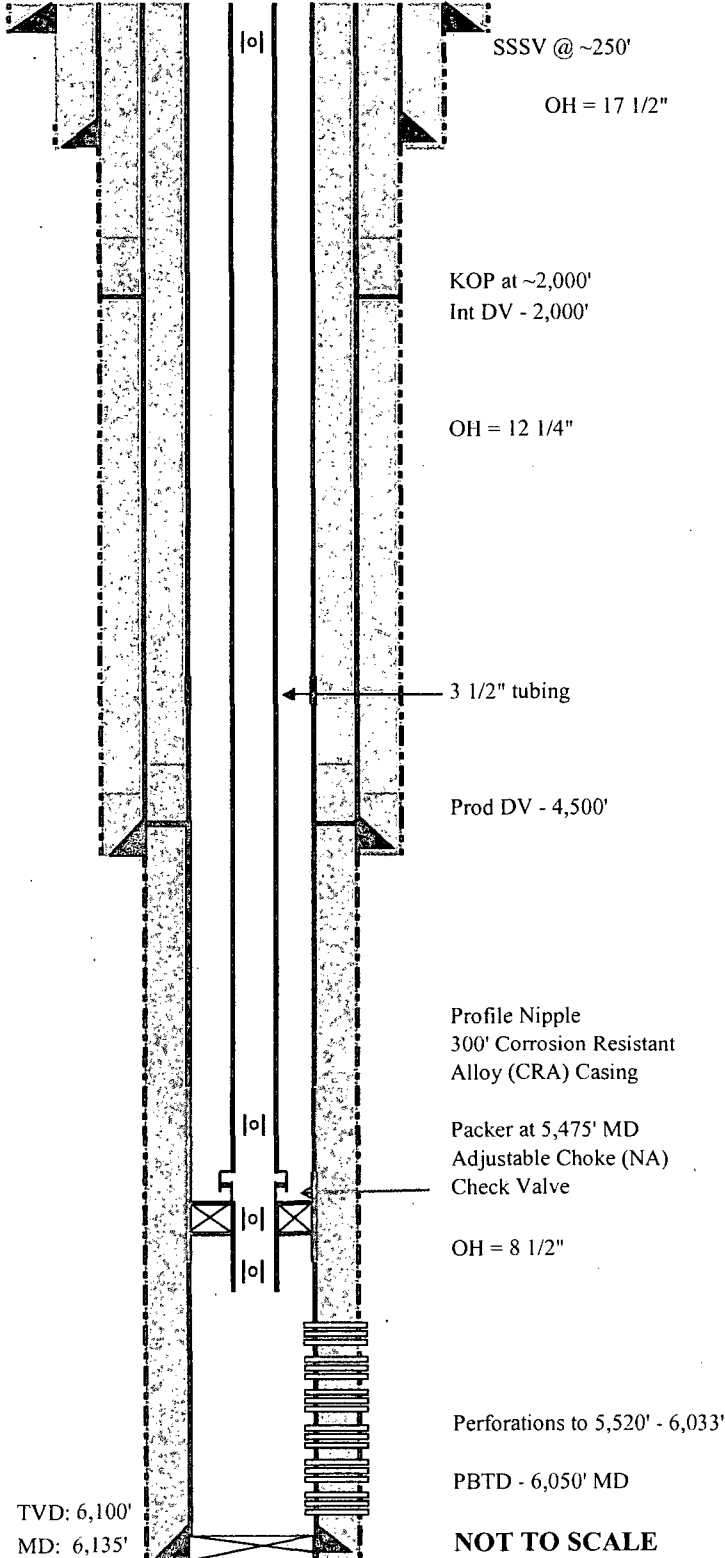
TVD = 6,200 ft

ATTACHMENT 4

TWELVE POINT SURFACE USE PLAN OF OPERATION

Location: DCP Zia AGI #1
STR Section 19, T19S-R32E
County, St.: Lea County, New Mexico

+/-12.66 DEGREE SLANT



CONDUCTOR CASING

20" Conductor at 120'

SURFACE CASING

13 3/8", 48.00#/ft, H40, STC at 785'

INTERMEDIATE CASING:

9 5/8", 40.0 #/ft, J55, LTC at 4,710'

PRODUCTION CASING:

7", 26 #/ft, HCL-80, LTC to 5,225'

7", 26 #/ft, CRA, USF to 5,525'*

7", 26 #/ft, HCL-80, USF to 6,135' (MTD)*

TUBING:

3 1/2", 9.3#/ft, L-80 TTS8* (Fiberglass Lined) Tbg at 5,380'

+ 3 jts 3 1/2", 9.3#/ft, CRA Prem (Fiberglass Lined) Tbg

ANNULAR FLUID:

Diesel Fuel from top of packer to surface

PACKER:

Permanent Production Packer @ 5,475' MD

Adj. Choke (if needed, placed in nipple below packer)

Check valve (if needed, placed in nipple below packer)

PERFORATIONS:

Primary Targets:	MD
5,500'-6,000'	5,520' - 6,033'

*Other Premium thds are acceptable & CRA is Grade 3 or better equivalent (28cr, SM2535, etc)

NOT TO SCALE