

Conoco Phillips Co

39649
30-015-39235



Scientific Drilling

Gyroscopic Survey Report
for
MANZANO

HOBBS OCD

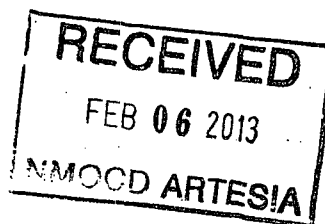
FEB 01 2013

RECEIVED

Well Location	Eddy	LEA COUNTY, NEW MEXICO
Well Name		GOLDEN SPUR FED #1 XX H
Rig Name		McVAY #4
Survey Date		12/27/2011
Latitude		32.01 deg
North Reference		Grid North
Grid Correction		-0.32 deg
Depth Reference		RKB
Calculation Method		Minimum Curvature
Section (VS) Ref		0.00N (ft), 0.00E (ft), 359.79Azim (deg)
Definitive Survey		FINAL OUTRUN
Operator		LEO GARZA

Comments

ZERO REFERENCE IS AT KB OF 18.5'





Scientific Drilling

Survey Report

Well Name: GOLDEN SPUR FED #1HY
Survey: FINAL OUTRUN
Survey Date: 12/27/2011

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	1.21	159.31	99.99	-0.99	-0.99	0.37	1.21	1.06	159.31
200.00	1.63	169.86	199.96	-3.38	-3.38	1.00	0.49	3.52	163.55
300.00	1.64	171.43	299.92	-6.20	-6.19	1.46	0.05	6.36	166.73
400.00	1.76	175.24	399.88	-9.15	-9.14	1.80	0.17	9.32	168.85
500.00	1.64	176.56	499.83	-12.11	-12.10	2.02	0.13	12.27	170.55
600.00	1.52	176.87	599.79	-14.86	-14.85	2.17	0.12	15.01	171.68
700.00	1.25	180.89	699.77	-17.28	-17.27	2.23	0.28	17.41	172.65
800.00	1.00	171.65	799.75	-19.24	-19.23	2.34	0.31	19.37	173.07
900.00	0.88	151.59	899.73	-20.78	-20.77	2.83	0.35	20.96	172.24
1000.00	1.05	129.97	999.72	-22.05	-22.03	3.90	0.40	22.38	169.97
1100.00	1.04	133.56	1099.70	-23.27	-23.25	5.26	0.07	23.84	167.24
1200.00	0.98	92.76	1199.69	-23.95	-23.92	6.78	0.71	24.86	164.18
1300.00	2.37	73.38	1299.64	-23.41	-23.37	9.61	1.48	25.27	157.65
1400.00	1.55	67.28	1399.58	-22.31	-22.26	12.84	0.85	25.69	150.03
1500.00	1.31	70.09	1499.55	-21.40	-21.35	15.16	0.24	26.18	144.63
1600.00	1.12	67.98	1599.53	-20.65	-20.59	17.14	0.20	26.79	140.23
1700.00	0.87	74.69	1699.52	-20.09	-20.03	18.78	0.27	27.45	136.84
1800.00	0.79	78.70	1799.50	-19.76	-19.69	20.18	0.10	28.20	134.29
1900.00	0.61	99.34	1899.50	-19.72	-19.64	21.38	0.31	29.03	132.58
2000.00	0.46	122.56	1999.49	-20.02	-19.94	22.24	0.26	29.87	131.89
2100.00	0.32	190.59	2099.49	-20.51	-20.43	22.52	0.45	30.40	132.21
2200.00	0.44	203.75	2199.49	-21.13	-21.05	22.31	0.15	30.68	133.34
2300.00	0.41	196.23	2299.49	-21.83	-21.75	22.06	0.06	30.98	134.60
2400.00	0.46	185.99	2399.48	-22.58	-22.50	21.92	0.09	31.41	135.75
2500.00	0.52	188.05	2499.48	-23.43	-23.35	21.81	0.06	31.95	136.96
2600.00	0.53	167.41	2599.48	-24.34	-24.26	21.85	0.19	32.65	138.00
2700.00	0.56	173.87	2699.47	-25.28	-25.20	22.00	0.07	33.45	138.88
2800.00	0.44	190.55	2799.47	-26.15	-26.07	21.98	0.19	34.10	139.86
2900.00	0.20	191.47	2899.47	-26.69	-26.61	21.88	0.23	34.45	140.58
3000.00	0.45	88.90	2999.46	-26.86	-26.78	22.24	0.54	34.81	140.30
3100.00	0.74	66.72	3099.46	-26.60	-26.52	23.23	0.36	35.25	138.79
3200.00	0.49	67.37	3199.45	-26.19	-26.10	24.21	0.25	35.60	137.15
3300.00	0.39	26.05	3299.45	-25.72	-25.63	24.76	0.33	35.63	135.98
3400.00	0.35	45.89	3399.45	-25.20	-25.10	25.13	0.14	35.52	134.97
3500.00	0.69	105.58	3499.45	-25.15	-25.05	25.93	0.60	36.06	134.02
3600.00	0.82	116.55	3599.44	-25.63	-25.54	27.15	0.19	37.27	133.25
3700.00	1.55	126.38	3699.41	-26.76	-26.66	28.87	0.75	39.30	132.71
3800.00	2.35	127.39	3799.36	-28.81	-28.70	31.59	0.80	42.68	132.26



Scientific Drilling

Survey Report

Well Name:		GOLDEN SPUR FED #1HY							
Survey:		FINAL OUTRUN							
Survey Date:		12/27/2011							
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
3900.00	2.18	134.13	3899.28	-31.39	-31.26	34.58	0.31	46.62	132.12
4000.00	1.54	142.16	3999.23	-33.78	-33.65	36.76	0.69	49.84	132.47
4100.00	1.01	137.47	4099.20	-35.50	-35.36	38.18	0.54	52.04	132.80
4200.00	0.66	104.17	4199.19	-36.29	-36.15	39.33	0.59	53.42	132.58
4300.00	0.72	82.77	4299.18	-36.36	-36.21	40.51	0.26	54.33	131.79
4400.00	0.78	76.40	4399.17	-36.12	-35.97	41.80	0.10	55.14	130.72
4500.00	0.78	81.67	4499.17	-35.87	-35.71	43.13	0.07	55.99	129.63
4600.00	0.65	64.36	4599.16	-35.53	-35.37	44.31	0.25	56.70	128.59
4700.00	0.72	69.50	4699.15	-35.06	-34.90	45.42	0.09	57.28	127.53
4800.00	0.74	68.18	4799.14	-34.61	-34.43	46.62	0.02	57.96	126.45
4900.00	0.65	60.33	4899.13	-34.09	-33.91	47.71	0.13	58.54	125.40
5000.00	0.73	59.49	4999.13	-33.49	-33.31	48.76	0.08	59.05	124.34
5100.00	0.67	47.08	5099.12	-32.77	-32.58	49.73	0.16	59.46	123.23
5200.00	0.77	53.84	5199.11	-31.97	-31.79	50.71	0.13	59.85	122.09
5300.00	0.62	40.58	5299.10	-31.17	-30.98	51.60	0.22	60.19	120.98
5400.00	0.61	52.51	5399.10	-30.44	-30.25	52.37	0.13	60.48	120.01
5500.00	0.48	55.27	5499.09	-29.88	-29.69	53.14	0.14	60.87	119.19
5600.00	0.47	77.41	5599.09	-29.56	-29.36	53.88	0.18	61.36	118.59
5700.00	0.63	61.21	5699.09	-29.21	-29.01	54.76	0.22	61.97	117.91
5800.00	0.50	56.19	5799.08	-28.70	-28.50	55.61	0.13	62.49	117.13
5900.00	0.67	55.64	5899.08	-28.13	-27.92	56.46	0.16	62.99	116.32
6000.00	0.77	63.36	5999.07	-27.51	-27.30	57.54	0.14	63.68	115.38
6100.00	0.77	63.83	6099.06	-26.92	-26.70	58.74	0.01	64.52	114.45
6200.00	0.75	58.01	6199.05	-26.28	-26.06	59.90	0.08	65.32	113.51
6300.00	0.69	80.38	6299.04	-25.83	-25.61	61.05	0.29	66.20	112.76
6400.00	0.61	87.40	6399.04	-25.71	-25.48	62.17	0.11	67.19	112.29
6500.00	0.51	91.46	6499.03	-25.70	-25.47	63.15	0.11	68.09	111.97
6600.00	0.47	111.83	6599.03	-25.87	-25.63	63.97	0.18	68.91	111.84
6700.00	0.59	110.89	6699.02	-26.21	-25.97	64.83	0.12	69.84	111.83
6800.00	0.52	122.55	6799.02	-26.64	-26.40	65.70	0.13	70.81	111.89
6900.00	0.70	125.53	6899.01	-27.24	-27.00	66.58	0.18	71.85	112.07
7000.00	0.53	142.65	6999.01	-27.97	-27.72	67.36	0.25	72.84	112.37
7100.00	0.87	145.26	7099.00	-28.96	-28.71	68.07	0.33	73.88	112.87
7200.00	0.71	151.27	7198.99	-30.13	-29.88	68.80	0.17	75.01	113.47
7300.00	1.06	138.26	7298.98	-31.37	-31.11	69.71	0.40	76.34	114.05
7400.00	1.05	154.13	7398.96	-32.88	-32.63	70.73	0.29	77.89	114.76
7500.00	0.96	159.88	7498.95	-34.50	-34.24	71.42	0.13	79.20	115.62
7600.00	0.99	162.14	7598.93	-36.12	-35.85	71.97	0.05	80.41	116.48



Scientific Drilling

Survey Report

Well Name: GOLDEN SPUR FED #1HY
Survey: FINAL OUTRUN
Survey Date: 12/27/2011

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
7700.00	1.30	166.24	7698.91	-38.04	-37.78	72.51	0.32	81.76	117.52
7800.00	1.45	165.95	7798.88	-40.37	-40.10	73.08	0.15	83.36	118.76
7900.00	1.50	164.77	7898.85	-42.86	-42.59	73.73	0.05	85.15	120.01
8000.00	1.38	174.87	7998.82	-45.32	-45.05	74.18	0.28	86.79	121.27
8100.00	1.46	180.92	8098.79	-47.80	-47.53	74.27	0.17	88.18	122.62
8200.00	1.41	186.26	8198.76	-50.30	-50.03	74.12	0.14	89.42	124.02
8300.00	1.37	190.87	8298.73	-52.69	-52.42	73.76	0.12	90.49	125.40
8400.00	1.03	201.58	8398.71	-54.70	-54.43	73.20	0.40	91.22	126.63
8500.00	1.17	214.27	8498.69	-56.37	-56.10	72.30	0.28	91.51	127.81
8600.00	0.93	224.21	8598.67	-57.78	-57.52	71.16	0.30	91.51	128.95
8700.00	0.78	223.44	8698.66	-58.85	-58.60	70.13	0.15	91.39	129.88
8800.00	1.14	202.63	8798.65	-60.26	-60.00	69.29	0.49	91.66	130.89
8900.00	1.27	199.79	8898.62	-62.21	-61.96	68.53	0.15	92.39	132.12
9000.00	1.17	174.25	8998.60	-64.27	-64.02	68.26	0.55	93.58	133.16
9100.00	1.37	190.80	9098.58	-66.45	-66.20	68.13	0.41	95.00	134.17
9200.00	1.53	188.42	9198.55	-68.94	-68.69	67.72	0.17	96.45	135.41

ALL SURVEYS MANZANO GOLDEN SPUR FED #1H SVY.TXT

Weatherford
Wft Survey Report X Y's.

Company: Manzano LLC
Field: Eddy Co., NM (NAD 83)
Site: Golden Spur Fed 1H
Well: 1H
Wellpath: Lateral

Date: 1/15/2013 Time: 09:36:40 Page: 1
Co-ordinate(NE) Reference: Well: 1H, Grid North
Vertical (TVD) Reference: SITE 3153.0
Section (VS) Reference: Well (0.00N,0.00E,359.79Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey:

Start Date:

Company:

Engineer:

Tool:

Tied-to:

Site: Golden Spur Fed 1H

Site Position: Northing: 366838.24 ft Latitude: 32 0 25.559 N
From: Map Easting: 727171.22 ft Longitude: 103 44 1.716 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3135.00 ft Grid Convergence: 0.32 deg

Well: 1H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 366838.24 ft Latitude: 32 0 25.559 N
+E/-W 0.00 ft Easting: 727171.22 ft Longitude: 103 44 1.716 W
Position Uncertainty: 0.00 ft

Wellpath: Lateral

Current Datum: SITE Height 3153.00 ft Drilled From: pilot
Magnetic Data: 12/30/2011 Tie-on Depth: 8300.00 ft
Field Strength: 48438 nT Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD) +N/-S Declination: 7.58 deg
ft ft Mag Dip Angle: 59.94 deg
0.00 0.00 +E/-W Direction
0.00 0.00 359.79

Survey MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	366838.24	727171.22	
100.00	1.21	159.31	99.99	-0.99	0.37	1.21	-0.99	366837.26	727171.59	

				ALL SURVEYS	MANZANO	GOLDEN	SPUR	FED #1H	SVY.TXT	
200.00	1.63	169.86	199.96	-3.38	1.00	0.49	-3.38	366834.87	727172.22	
300.00	1.64	171.43	299.92	-6.19	1.46	0.05	-6.20	366832.05	727172.68	
400.00	1.76	175.24	399.88	-9.14	1.80	0.16	-9.14	366829.11	727173.02	
500.00	1.64	176.56	499.83	-12.09	2.01	0.13	-12.10	366826.15	727173.24	
600.00	1.52	176.87	599.80	-14.85	2.17	0.12	-14.86	366823.40	727173.39	
700.00	1.25	180.89	699.77	-17.26	2.23	0.29	-17.27	366820.98	727173.45	
800.00	1.00	171.65	799.75	-19.22	2.34	0.31	-19.22	366819.03	727173.56	
900.00	0.88	151.59	899.73	-20.76	2.83	0.35	-20.77	366817.49	727174.05	
1000.00	1.05	129.97	999.72	-22.02	3.90	0.40	-22.03	366816.22	727175.12	
1100.00	1.04	133.56	1099.70	-23.23	5.26	0.07	-23.25	366815.01	727176.48	
1200.00	0.98	92.76	1199.69	-23.90	6.77	0.71	-23.92	366814.34	727177.99	
1300.00	2.37	73.38	1299.64	-23.35	9.60	1.48	-23.38	366814.89	727180.83	
1400.00	1.55	67.28	1399.58	-22.24	12.83	0.84	-22.28	366816.01	727184.05	
1500.00	1.31	70.09	1499.55	-21.32	15.16	0.25	-21.38	366816.92	727186.38	
1600.00	1.12	67.98	1599.53	-20.57	17.14	0.20	-20.63	366817.67	727188.36	
1700.00	0.87	74.69	1699.52	-20.00	18.77	0.28	-20.07	366818.24	727190.00	
1800.00	0.79	78.70	1799.51	-19.67	20.18	0.10	-19.74	366818.58	727191.40	
1900.00	0.61	99.34	1899.50	-19.62	21.38	0.31	-19.70	366818.63	727192.61	
2000.00	0.46	122.56	1999.49	-19.92	22.25	0.26	-20.00	366818.32	727193.47	
2100.00	0.32	190.59	2099.49	-20.41	22.53	0.45	-20.49	366817.83	727193.76	
2200.00	0.44	203.75	2199.49	-21.04	22.33	0.15	-21.12	366817.21	727193.55	
2300.00	0.41	196.23	2299.49	-21.73	22.07	0.06	-21.81	366816.51	727193.30	
2400.00	0.46	185.99	2399.48	-22.47	21.93	0.09	-22.55	366815.77	727193.15	
2500.00	0.52	188.05	2499.48	-23.32	21.83	0.06	-23.40	366814.92	727193.05	
2600.00	0.53	167.41	2599.48	-24.22	21.86	0.19	-24.30	366814.02	727193.09	
2700.00	0.56	173.87	2699.47	-25.16	22.02	0.07	-25.24	366813.08	727193.24	
2800.00	0.44	190.55	2799.47	-26.02	22.00	0.19	-26.10	366812.22	727193.22	
2900.00	0.20	191.47	2899.47	-26.57	21.89	0.24	-26.65	366811.67	727193.12	
3000.00	0.45	88.90	2999.47	-26.74	22.25	0.53	-26.82	366811.51	727193.47	
3100.00	0.74	66.72	3099.46	-26.47	23.24	0.37	-26.56	366811.77	727194.46	
3200.00	0.49	67.37	3199.45	-26.05	24.23	0.25	-26.14	366812.19	727195.45	
3300.00	0.39	26.05	3299.45	-25.58	24.77	0.32	-25.67	366812.66	727195.99	
3400.00	0.35	45.89	3399.45	-25.06	25.14	0.13	-25.16	366813.18	727196.36	
3500.00	0.69	105.58	3499.45	-25.01	25.94	0.60	-25.11	366813.23	727197.16	
3600.00	0.82	116.55	3599.44	-25.50	27.16	0.19	-25.60	366812.75	727198.38	
3700.00	1.55	126.38	3699.41	-26.62	28.89	0.76	-26.72	366811.63	727200.11	
3800.00	2.35	127.39	3799.36	-28.66	31.60	0.80	-28.78	366809.58	727202.83	
3900.00	2.18	134.13	3899.28	-31.23	34.60	0.32	-31.36	366807.01	727205.82	
4000.00	1.54	142.16	3999.23	-33.62	36.79	0.69	-33.75	366804.62	727208.01	
4100.00	1.01	137.47	4099.20	-35.33	38.21	0.54	-35.47	366802.91	727209.43	

ALL SURVEYS MANZANO GOLDEN SPUR FED #1H SVY.TXT									
4200.00	0.66	104.17	4199.19	-36.12	39.36	0.58	-36.27	366802.12	727210.58
4300.00	0.72	82.77	4299.18	-36.18	40.54	0.26	-36.33	366802.06	727211.77
4400.00	0.78	76.40	4399.17	-35.94	41.83	0.10	-36.10	366802.30	727213.05
4500.00	0.78	81.67	4499.17	-35.68	43.16	0.07	-35.84	366802.56	727214.39
4600.00	0.65	64.36	4599.16	-35.34	44.35	0.25	-35.50	366802.90	727215.57
4700.00	0.72	69.50	4699.15	-34.88	45.45	0.09	-35.04	366803.37	727216.67
4800.00	0.74	68.18	4799.14	-34.42	46.64	0.03	-34.59	366803.83	727217.86
4900.00	0.65	60.33	4899.13	-33.89	47.73	0.13	-34.07	366804.35	727218.95
5000.00	0.73	59.49	4999.13	-33.29	48.77	0.08	-33.47	366804.95	727219.99
5100.00	0.67	47.08	5099.12	-32.57	49.75	0.16	-32.75	366805.67	727220.97
5200.00	0.77	53.84	5199.11	-31.77	50.72	0.13	-31.96	366806.47	727221.94
5300.00	0.62	40.58	5299.10	-30.97	51.61	0.22	-31.16	366807.28	727222.83
5400.00	0.61	52.51	5399.10	-30.23	52.39	0.13	-30.42	366808.01	727223.61
5500.00	0.48	55.27	5499.09	-29.67	53.15	0.13	-29.86	366808.57	727224.38
5600.00	0.47	77.41	5599.09	-29.34	53.90	0.18	-29.54	366808.90	727225.12
5700.00	0.63	61.21	5699.09	-28.99	54.78	0.22	-29.19	366809.26	727226.00
5800.00	0.50	56.19	5799.08	-28.48	55.63	0.14	-28.68	366809.76	727226.85
5900.00	0.67	55.64	5899.08	-27.91	56.47	0.17	-28.11	366810.34	727227.69
6000.00	0.77	63.36	5999.07	-27.28	57.55	0.14	-27.49	366810.97	727228.77
6100.00	0.77	63.83	6099.06	-26.68	58.76	0.01	-26.89	366811.57	727229.98
6200.00	0.75	58.01	6199.05	-26.03	59.92	0.08	-26.26	366812.21	727231.14
6300.00	0.69	80.38	6299.04	-25.59	61.06	0.29	-25.81	366812.66	727232.29
6400.00	0.61	87.40	6399.04	-25.46	62.19	0.11	-25.69	366812.78	727233.41
6500.00	0.51	91.46	6499.03	-25.45	63.17	0.11	-25.68	366812.79	727234.39
6600.00	0.47	111.83	6599.03	-25.61	63.99	0.18	-25.85	366812.63	727235.21
6700.00	0.59	110.89	6699.02	-25.95	64.85	0.12	-26.19	366812.29	727236.07
6800.00	0.52	122.55	6799.02	-26.38	65.72	0.13	-26.62	366811.87	727236.94
6900.00	0.70	125.53	6899.01	-26.98	66.60	0.18	-27.22	366811.27	727237.82
7000.00	0.53	142.65	6999.01	-27.70	67.37	0.25	-27.95	366810.54	727238.60
7100.00	0.87	145.26	7099.00	-28.69	68.09	0.34	-28.94	366809.55	727239.31
7200.00	0.71	151.27	7198.99	-29.86	68.82	0.18	-30.11	366808.39	727240.04
7300.00	1.06	138.26	7298.98	-31.09	69.73	0.40	-31.35	366807.15	727240.95
7400.00	1.05	154.13	7398.96	-32.61	70.75	0.29	-32.87	366805.64	727241.97
7500.00	0.96	159.88	7498.95	-34.22	71.44	0.14	-34.48	366804.03	727242.66
7600.00	0.99	162.14	7598.93	-35.83	71.99	0.05	-36.09	366802.42	727243.21
7700.00	1.30	166.24	7698.91	-37.75	72.52	0.32	-38.02	366800.49	727243.74
7800.00	1.45	165.95	7798.88	-40.08	73.10	0.15	-40.35	366798.16	727244.32
7900.00	1.50	164.77	7898.85	-42.57	73.75	0.06	-42.84	366795.67	727244.97
8000.00	1.38	174.87	7998.82	-45.03	74.20	0.28	-45.30	366793.21	727245.42

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8100.00	1.46	180.92	8098.79	-47.50	74.29	0.17	-47.78	366790.74	727245.51
8200.00	1.41	186.26	8198.76	-50.00	74.14	0.14	-50.27	366788.24	727245.36
8300.00	1.37	190.87	8298.73	-52.40	73.78	0.12	-52.67	366785.84	727245.00
8346.00	0.74	205.49	8344.72	-53.21	73.54	1.48	-53.48	366785.04	727244.77
Tie On SDI First wft svy									
8378.00	1.04	345.12	8376.72	-53.11	73.38	5.23	-53.38	366785.13	727244.60
8410.00	4.11	351.67	8408.68	-51.70	73.14	9.62	-51.97	366786.55	727244.36
8441.00	7.34	354.53	8439.52	-48.63	72.79	10.46	-48.89	366789.62	727244.01
8473.00	10.75	356.01	8471.12	-43.61	72.39	10.68	-43.88	366794.63	727243.61
8503.00	14.27	356.14	8500.40	-37.13	71.94	11.73	-37.40	366801.11	727243.16
8535.00	17.71	356.16	8531.16	-28.34	71.35	10.75	-28.60	366809.91	727242.57
8566.00	20.90	355.38	8560.41	-18.12	70.59	10.32	-18.38	366820.13	727241.81
8597.00	23.89	354.14	8589.07	-6.36	69.50	9.76	-6.62	366831.88	727240.73
8628.00	26.84	353.75	8617.08	6.85	68.10	9.53	6.59	366845.09	727239.32
8659.00	29.63	353.23	8644.39	21.41	66.44	9.03	21.17	366859.66	727237.66
8690.00	31.99	353.22	8671.01	37.18	64.56	7.61	36.94	366875.42	727235.78
8721.00	34.67	352.63	8696.91	54.08	62.46	8.71	53.85	366892.32	727233.68
8752.00	37.53	352.49	8721.96	72.19	60.10	9.23	71.97	366910.43	727231.32
8783.00	40.41	353.25	8746.06	91.53	57.68	9.42	91.32	366929.78	727228.90
8814.00	43.35	354.16	8769.14	112.10	55.42	9.68	111.90	366950.35	727226.64
8845.00	46.21	354.77	8791.14	133.83	53.31	9.33	133.64	366972.08	727224.53
8876.00	48.62	356.43	8812.11	156.59	51.57	8.72	156.40	366994.83	727222.79
8908.00	51.77	357.21	8832.60	181.13	50.21	10.02	180.94	367019.37	727221.43
8939.00	55.01	356.92	8851.08	205.98	48.93	10.48	205.80	367044.22	727220.15
8970.00	58.38	356.98	8868.10	231.85	47.56	10.87	231.67	367070.09	727218.78
9001.00	61.84	357.21	8883.55	258.69	46.19	11.18	258.51	367096.93	727217.42
9032.00	65.04	357.33	8897.41	286.38	44.87	10.33	286.21	367124.62	727216.10
9064.00	68.79	357.85	8909.95	315.79	43.64	11.81	315.62	367154.03	727214.86
9095.00	72.20	358.26	8920.30	344.98	42.65	11.07	344.83	367183.23	727213.87
9127.00	76.34	357.91	8928.97	375.76	41.62	12.98	375.61	367214.01	727212.84
9158.00	80.55	358.04	8935.18	406.11	40.55	13.59	405.96	367244.35	727211.77
9189.00	85.06	358.51	8939.06	436.84	39.62	14.63	436.69	367275.09	727210.84
9220.00	87.73	359.78	8941.01	467.77	39.16	9.53	467.63	367306.02	727210.38
9312.00	90.31	1.43	8942.59	559.74	40.13	3.33	559.59	367397.99	727211.35
9398.00	90.80	1.43	8941.75	645.71	42.28	0.57	645.55	367483.96	727213.50
9429.00	91.15	2.12	8941.23	676.69	43.24	2.50	676.53	367514.94	727214.46
9461.00	91.57	2.48	8940.47	708.66	44.52	1.73	708.49	367546.90	727215.74
9492.00	91.86	2.62	8939.54	739.61	45.90	1.04	739.44	367577.86	727217.12
9524.00	91.78	2.38	8938.52	771.57	47.29	0.79	771.39	367609.81	727218.52
9556.00	90.94	2.12	8937.76	803.53	48.55	2.75	803.35	367641.78	727219.77

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9619.00	90.74	2.48	8936.84	866.48	51.08	0.65	866.28	367704.72	727222.30
9651.00	89.27	2.02	8936.84	898.45	52.34	4.81	898.25	367736.69	727223.56
9682.00	89.75	2.14	8937.10	929.43	53.46	1.60	929.23	367767.67	727224.68
9714.00	89.62	2.50	8937.28	961.40	54.76	1.20	961.19	367799.65	727225.98
9808.00	89.82	0.89	8937.74	1055.36	57.54	1.73	1055.14	367893.60	727228.76
9903.00	91.85	0.52	8936.35	1150.33	58.70	2.17	1150.11	367988.58	727229.93
9998.00	90.31	1.17	8934.56	1245.30	60.11	1.76	1245.07	368083.55	727231.33
10093.00	87.09	0.88	8936.72	1340.25	61.80	3.40	1340.01	368178.49	727233.03
10188.00	87.23	359.26	8941.42	1435.13	61.92	1.71	1434.89	368273.37	727233.14
10220.00	87.17	359.36	8942.99	1467.09	61.54	0.36	1466.85	368305.33	727232.76
10252.00	87.79	359.21	8944.39	1499.06	61.14	1.99	1498.82	368337.30	727232.36
10283.00	88.64	358.94	8945.36	1530.04	60.64	2.88	1529.80	368368.28	727231.86
10315.00	89.47	358.39	8945.89	1562.02	59.89	3.11	1561.79	368400.27	727231.11
10379.00	91.08	357.64	8945.58	1625.98	57.67	2.78	1625.76	368464.23	727228.90
10474.00	91.92	357.13	8943.09	1720.85	53.34	1.03	1720.64	368559.09	727224.56
10569.00	91.44	357.37	8940.31	1815.70	48.79	0.56	1815.51	368653.94	727220.01
10601.00	91.57	357.31	8939.47	1847.65	47.30	0.45	1847.47	368685.90	727218.52
10664.00	91.29	357.33	8937.90	1910.57	44.36	0.45	1910.39	368748.81	727215.58
10696.00	91.01	357.64	8937.25	1942.53	42.95	1.31	1942.36	368780.77	727214.17
10727.00	91.15	357.79	8936.67	1973.50	41.72	0.66	1973.33	368811.74	727212.94
10759.00	90.95	357.36	8936.08	2005.46	40.36	1.48	2005.30	368843.71	727211.58
10854.00	89.13	358.26	8936.02	2100.39	36.73	2.14	2100.24	368938.63	727207.95
10886.00	88.21	357.54	8936.76	2132.36	35.56	3.65	2132.21	368970.60	727206.78
10981.00	88.35	356.52	8939.61	2227.19	30.64	1.08	2227.06	369065.43	727201.86
11076.00	88.70	356.42	8942.06	2321.98	24.79	0.38	2321.87	369160.22	727196.01
11171.00	89.20	355.52	8943.80	2416.72	18.12	1.08	2416.64	369254.97	727189.34
11266.00	89.76	355.16	8944.66	2511.40	10.40	0.70	2511.35	369349.65	727181.62
11362.00	89.75	354.68	8945.07	2607.03	1.90	0.50	2607.00	369445.27	727173.12
11457.00	90.04	354.87	8945.24	2701.63	-6.75	0.36	2701.64	369539.87	727164.47
11551.00	90.38	354.88	8944.90	2795.26	-15.15	0.36	2795.29	369633.50	727156.07
11646.00	91.65	354.51	8943.22	2889.83	-23.93	1.39	2889.90	369728.07	727147.29
11741.00	91.65	353.30	8940.48	2984.25	-34.01	1.27	2984.36	369822.50	727137.21
11836.00	91.29	352.98	8938.04	3078.54	-45.36	0.51	3078.69	369916.78	727125.86
11900.00	91.86	353.24	8936.29	3142.06	-53.03	0.98	3142.23	369980.30	727118.19
11994.00	92.98	353.10	8932.32	3235.30	-64.20	1.20	3235.52	370073.55	727107.02
12089.00	93.47	357.21	8926.97	3329.79	-72.21	4.35	3330.04	370168.04	727099.01
12184.00	89.69	0.46	8924.35	3424.71	-74.14	5.25	3424.96	370262.95	727097.08
12279.00	89.27	359.94	8925.21	3519.70	-73.81	0.70	3519.95	370357.95	727097.42
12373.00	88.21	359.50	8927.28	3613.68	-74.27	1.22	3613.93	370451.92	727096.96
12468.00	87.65	0.69	8930.71	3708.61	-74.11	1.38	3708.86	370546.86	727097.11

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12563.00	88.21	1.54	8934.14	3803.53	-72.26	1.07	3803.77	370641.77	727098.96
12658.00	88.36	2.06	8936.99	3898.44	-69.28	0.57	3898.67	370736.69	727101.94
12753.00	88.85	1.93	8939.30	3993.36	-65.97	0.53	3993.57	370831.60	727105.25
12848.00	88.85	2.51	8941.20	4088.27	-62.29	0.61	4088.47	370926.51	727108.93
12943.00	87.65	0.76	8944.11	4183.18	-59.58	2.23	4183.37	371021.42	727111.64
13037.00	86.39	0.79	8948.99	4277.04	-58.31	1.34	4277.23	371115.28	727112.91
13133.00	86.67	0.79	8954.80	4372.85	-56.99	0.29	4373.03	371211.10	727114.23
13227.00	85.76	0.33	8961.01	4466.64	-56.07	1.08	4466.82	371304.89	727115.15
13322.00	87.52	0.97	8966.58	4561.47	-55.00	1.97	4561.64	371399.71	727116.22
13389.00	86.47	359.84	8970.09	4628.37	-54.53	2.30	4628.54	371466.62	727116.70 Last Wft Svy
13450.00	86.47	359.84	8973.84	4689.26	-54.70	0.00	4689.43	371527.50	727116.53 Proj. To Bit

Annotation

MD	TVD	
ft	ft	
8300.00	8298.73	Tie On SDI
8346.00	8344.72	First Wft Svy
13389.00	8970.09	Last Wft Svy
13450.00	8973.84	Proj. To Bit