

WELL LOGS

K_z

API number:	30-025-38719		
OGRID:		Operator:	YATES PETROLEUM CORP
		Property:	BELCO AIA FEDERAL # 3

surface	ULSTR:	D	14	T	20S	R	32E
			1980	FSL	1830	FEL	

BH Loc	ULSTR:	B	14	T	20S	R	32E
			1071	FNL	2241	FEL	

Ground Level:	na	DF:	na	KB:	na	
Datum:				TD:	6955	

Land: **FEDERAL**

Completion Date: (1) **5/17/2008**
 Date Logs Received: **6/30/2008** ***LATE
 Date Due in: (2) **6/6/2008**

Confidential:	NO			Date out:	
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval	
CBL	0	4979 Cement Bond Log

K_z

OCD TOPS

Rustler		Strawn		
Tansill		Atoka		
Yates				
7 rvs				
		Austin		
Queen				
Penrose				
Grayburg				
San Andres				
Glorieta				
Blinberry				
Tubb				
Drinkard				
Abo				
Wolfcamp				

Results of Directional Survey

API number:	30-025-38719		
OGRID:		Operator:	YATES PETROLEUM CORP
		Property:	BELCO AIA FEDERAL # 3

surface	ULSTR:	J	14	T	20S	R	32E
			1980	FSL	1830	FEL	

BH Loc	ULSTR:	B	14	T	20S	R	32E
			4209	FSL	2241	FEL	

	MD	N/S	E/W	VD
	5266	574.33	-100.40	4935
TOP PERFS/OH	5272	580.10	-102.02	4934.91
	5298	605.12	-109.06	4934.54
	6877	2152.39	-399.02	4861.57
BOT PERFS/OH	6880	2155.35	-399.46	4861.31
	6898	2173.08	-402.11	4859.75

NEXT TO LAST	6908	2182.93	-403.58	4858.87
LAST READING	6955	2229.21	-410.67	4854.73
TD	6955	2229.21	-410.67	4854.73

Surface Location	1980	FS	1830	FE
Projected BHL	4209	FS	2241	FE
Location of				
Top Perfs/OH	2560	FS	1932	FE
Bottom Perfs/OH	4135	FS	2229	FE

SUMMARY of Subsurface Locations

Surface Location	J-14-20S-32E	1980	FS	1830	FE	Vert. Depth
Top Perfs/OH	J-14-20S-32E	2560	FS	1932	FE	4934.91
Bottom Perfs/OH	B-14-20S-32E	4135	FS	2229	FE	4861.31
Projected TD	B-14-20S-32E	4209	FS	2241	FE	4854.73

YATES PETROLEUM CORPORATION

BELCO AIA FEDERAL #3H
LEA CO., NEW MEXICOSUR: J-14-20s-32e, 1980/S & 1830/E
BHL: B-14-20s-32e, 4209/S & 2241/E
API # 30-025-38719

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	-E-W	Dleg	TFace	VStc	Target
1	3405.00	0.40	45.93	3404.09	41.73	36.90	0.00	0.00	35.09	
2	4431.33	0.40	45.93	4430.39	46.80	42.30	0.00	0.00	39.18	
3	5499.37	0.00	349.51	4923.93	316.79	-41.82	12.00	-57.42	318.52	
4	7703.91	0.00	349.51	4925.00	2979.45	-497.79	0.00	0.00	1020.75	PBHL

WELL DETAILS

Name	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
#3H	0.00	0.00	572113.04	725876.34	32°34'16.90"N	105°44'03.43"W	N/A

TARGET DETAILS

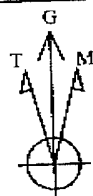
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PBHL	4926.00	2979.45	-497.79	575092.49	725378.55	Point

SITE DETAILS

Belco AIA Federal #3H
SEC 14, T-20-S, R-32-E
Site Centre Northing: 572113.04
Easting: 725876.34
Ground Level: 3529.00
Positional Uncertainty: 0.00
Convergence: 0.32

FIELD DETAILS

Lea Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: bggm2007
System Datum: Mean Sea Level
Local North: Grid North



Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.79°

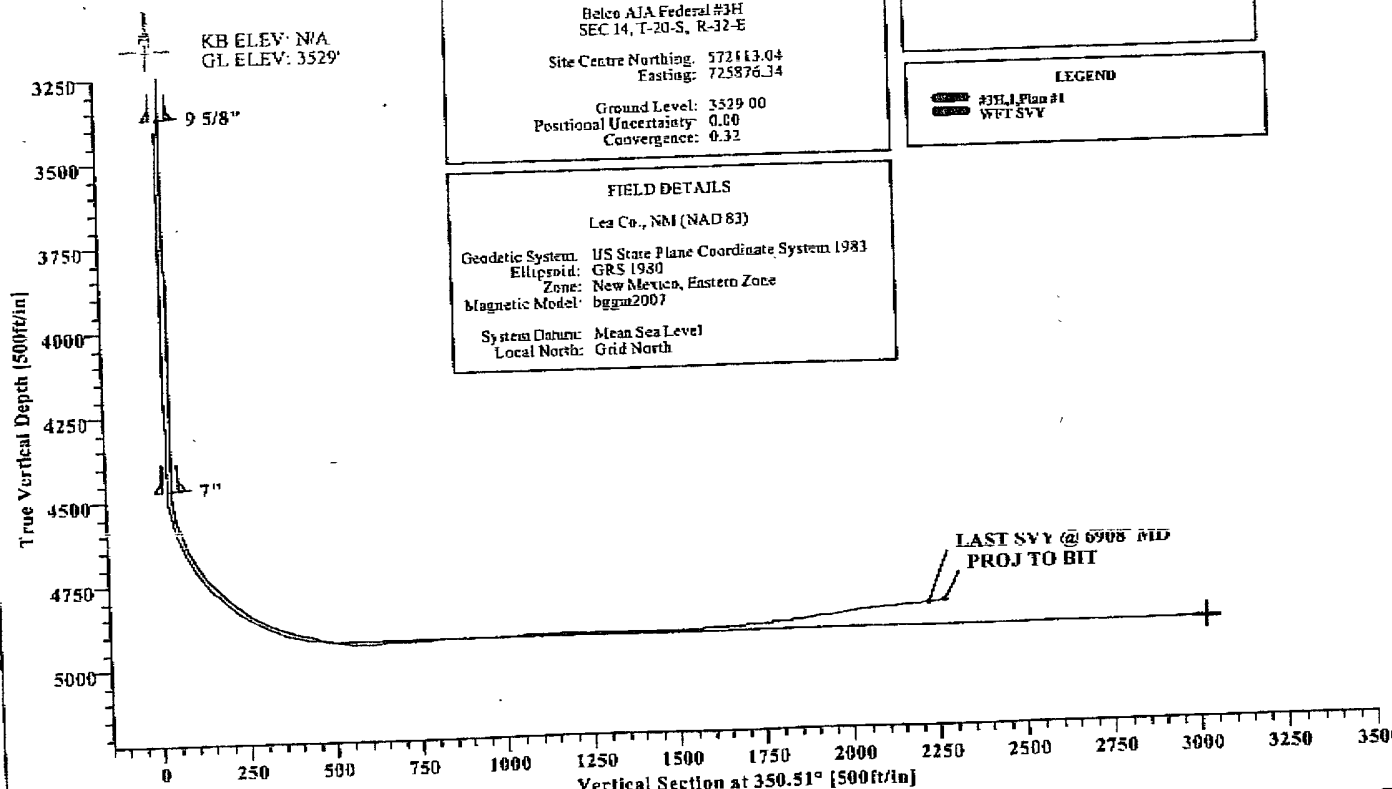
Magnetic Field
Strength: 49185nT
Dip Angle: 60.57°
Date: 3/22/2008
Model: bggm2007

FORMATION TOP DETAILS

No.	TVDPth	MDPth	Formation
1	1499.91	1500.00	Hustler
2	3419.15	3420.06	Capitan Reef
3	4649.64	4657.42	Lamar
4	4687.56	4694.73	Delaware
5	4902.38	5071.37	Cherry Canyon
6	4917.13	5127.16	Belco Sand

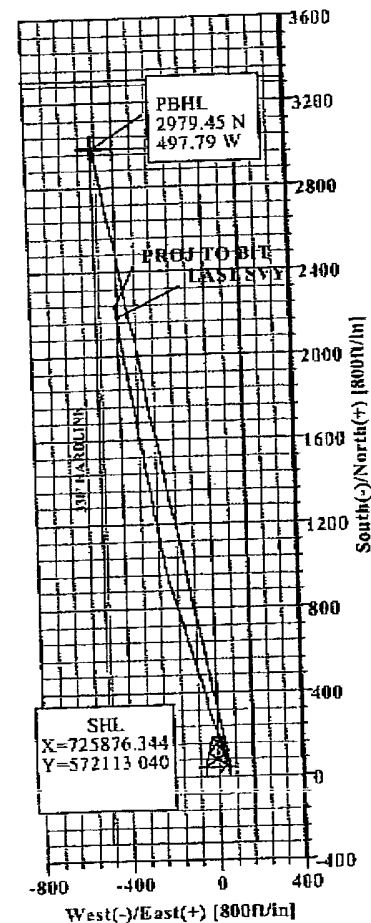
LEGEND

#3H, I, Plan #1
WFT SVY



VERTICAL SECTION

VERTICAL SECTION AZIMUTH: 350.51°



Survey: WFT SVY (#3H/1)
Created By: Lindsey Muskus Date: 4/2/2008

Weatherford International, Inc.

Survey Report



Company: Yates Petroleum Field: Lea Co, NM (NAD 83) Site: Belco AIA Federal #3H Well: #3H Wellpath:	Date: 3/22/2008 Time: 07:32:29 Coordinate (NE) Reference: SITE Belco AIA Face Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well 10.00N 0.00E 310.51 Azi Survey Calculation Method: Minimum Curvature	Page: 5 Grid: Grid North Dh: Sybase
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Field: Lea Co, NM (NAD 83) Map System: US State Plane Coordinate System 1983 Geo Datum: GRS 1980 Sys Datum: Mean Sea Level	Map Zone: New Mexico, Eastern Zone Coordinate System: Site Centre Geomagnetic Model: bggm2007
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Site: Belco AIA Federal #3H SEC 14, T-20-S, R-32-E Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3529.00 ft	Northing: 572113.04 ft Easting: 725876.34 ft Latitude: 32 34 16.907 N Longitude: 103 44 3.439 W North Reference: Grid Grid Convergence: 0.32 deg
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Well: #3H Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Northing: 572113.04 ft Easting: 725876.34 ft Latitude: 32 34 16.907 N Longitude: 103 44 3.439 W
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Wellpath: 1 Current Datum: SITE Magnetic Data: 3/22/2008 Field Strength: 49185 nT Vertical Section: Depth From (TVD) ft	Height 0.00 ft +N/-S ft +E/-W ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.11 deg Mag Dip Angle: 60.57 deg +E/-W Direction deg ft
0.00	0.00	0.00 350.51

Survey: WFT SVY Company: Weatherford International, Inc Tool:	Start Date: 3/24/2008 Engineer: Lindsey Maddux Tied-to: Usor Defined
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Survey: WFT SVY											Tool/Comment
MD	Incl	Azim	TVD	N-S	E-W	VS	DLS	Built	Turn		
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft		
1500.00	0.73	45.02	1499.91	14.40	0.13	14.18	0.00	0.00	0.00		"3 3/8"
1572.00	0.97	67.69	1571.90	14.96	1.02	14.58	0.57	0.33	31.49		
1652.00	1.06	38.42	1651.89	15.79	2.10	15.23	0.65	0.11	-36.59		
1745.00	0.88	20.85	1744.88	17.13	2.89	16.42	0.37	-0.19	-18.89		
1838.00	1.14	42.03	1837.86	18.49	3.77	17.61	0.48	0.28	22.77		
1932.00	1.23	55.65	1931.84	19.75	5.23	18.62	0.31	0.10	14.49		
2025.00	1.49	57.41	2024.82	20.97	7.07	19.51	0.28	0.28	1.89		
2087.00	1.85	48.71	2086.79	22.06	8.50	20.36	0.71	0.58	-14.03		
2181.00	1.67	55.04	2180.75	23.85	10.76	21.75	0.28	-0.19	6.73		
2274.00	2.20	58.11	2273.69	25.57	13.39	23.01	0.58	0.57	3.30		
2367.00	2.37	45.81	2366.62	27.85	16.28	24.78	0.56	0.18	-13.23		
2398.00	2.29	44.58	2397.59	28.74	17.18	25.51	0.30	-0.26	-3.97		
2430.00	2.46	47.83	2429.57	29.65	18.14	26.26	0.68	0.53	10.16		
2444.00	2.46	48.00	2443.55	30.08	18.58	26.58	0.05	0.00	1.21		
2475.00	3.17	47.56	2474.52	31.08	19.71	27.41	2.29	2.29	-1.42		
2506.00	3.17	45.10	2505.47	32.26	20.95	28.37	0.44	0.00	-7.84		
2537.00	3.69	50.38	2536.41	33.51	22.32	29.37	1.96	1.68	17.03		
2569.00	3.69	52.84	2568.35	34.78	23.94	30.36	0.49	0.00	7.69		
2600.00	3.69	56.97	2599.28	35.93	25.57	31.22	0.88	0.00	13.32		
2631.00	3.08	49.59	2630.23	37.01	27.04	32.05	2.41	-1.97	-23.81		
2662.00	2.55	46.07	2661.19	38.03	28.17	32.87	1.80	-1.71	-11.35		
2693.00	1.76	36.93	2692.17	38.89	28.95	33.59	2.77	-2.55	-29.48		
2724.00	1.14	33.41	2723.16	39.53	29.41	34.14	2.02	-2.00	-11.35		
2787.00	0.97	50.03	2786.15	40.40	30.16	34.87	0.55	-0.27	26.38		

Weatherford International, Inc.

Survey Report



Company: Yates Petroleum	Date: 4/2/2008	Time: 07:32:25	Page: 2
Well: Balco AIA Federal #3H	Coordinate (N) Reference: SITE 0.0	Site: Balco AIA Federal #3H	Grid: North
Well: 93H	Vertical (VD) Reference: Well (0.00N, 0.00E) 3-0.54(Az)		
Wellpath:	Section (VS) Reference:	Survey Calculation Method: Minimum Curvature	Dr: Sybase

Survey: WFT SVY

MD	Incl	Azlm	TVD	N/S	E/W	VS	DLS	Build	Turn	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
2849.00	1.32	71.12	2848.14	40.96	31.24	35.25	0.87	0.56	34.02	
2911.00	1.41	75.78	2910.12	41.38	32.66	35.43	0.23	0.15	7.52	
2974.00	0.88	99.07	2973.11	41.50	33.88	35.34	1.10	-0.84	36.97	
3036.00	0.70	91.25	3035.10	41.41	34.73	35.12	0.34	-0.29	-12.61	
3098.00	0.82	77.45	3097.10	41.48	35.44	35.07	0.29	-0.13	-22.26	
3192.00	0.09	116.29	3191.09	41.55	36.00	35.05	0.59	-0.56	41.32	
3317.00	0.35	124.82	3316.09	41.29	36.40	34.73	0.21	0.21	6.82	
3332.00	0.53	41.41	3331.09	41.32	36.49	34.74	4.00	1.20	-556.07	
3370.06	0.46	43.92	3369.15	41.56	36.71	34.94	0.18	-0.17	6.59	9 5/8"
3438.00	0.35	50.71	3437.09	41.89	37.06	35.21	0.18	-0.17	10.00	
3531.00	0.44	81.81	3530.09	42.12	37.63	35.34	0.25	0.10	33.44	
3625.00	0.62	62.48	3624.08	42.41	38.44	35.49	0.27	0.19	-20.56	
3718.00	0.79	46.41	3717.08	43.08	39.35	36.01	0.28	0.18	-17.28	
3811.00	0.79	22.10	3810.07	44.12	40.06	36.91	0.36	0.00	-26.14	
3905.00	1.09	354.69	3904.06	45.61	40.22	38.35	0.57	0.32	-29.16	
3999.00	0.79	246.92	3998.05	46.25	39.54	39.09	1.63	-0.32	-114.65	
4092.00	0.88	248.93	4091.04	45.74	38.29	38.80	0.10	0.10	2.16	
4185.00	0.88	251.02	4184.03	45.25	36.94	38.54	0.03	0.00	2.25	
4279.00	0.70	244.72	4278.02	44.77	35.74	38.26	0.21	-0.19	-6.70	
4372.00	0.70	243.46	4371.01	44.27	34.72	37.94	0.02	0.00	-1.35	
4403.00	0.62	239.69	4402.01	44.10	34.41	37.83	0.29	-0.26	-12.16	
4434.00	0.53	284.96	4433.01	44.06	34.12	37.83	1.45	-0.29	146.03	
4465.00	2.20	355.71	4464.00	44.69	33.94	38.48	6.73	5.39	228.23	7"
4469.50	2.73	358.18	4468.49	44.88	33.93	38.67	12.01	11.78	54.87	
4496.00	5.89	3.62	4494.92	46.87	34.00	40.62	12.01	11.92	20.54	
4527.00	9.06	2.21	4525.65	50.90	34.19	44.56	10.24	10.23	-4.55	
4558.00	12.93	357.38	4556.07	56.80	34.13	50.40	12.82	12.48	-15.58	
4589.00	16.62	354.21	4586.05	64.68	33.52	58.27	12.18	11.90	-10.23	
4620.00	21.19	351.05	4615.37	74.63	32.20	68.30	15.10	14.74	-10.19	
4651.00	25.41	350.00	4643.83	86.72	30.17	80.56	13.68	13.61	-3.39	
4673.00	27.70	350.08	4663.51	96.41	28.47	90.39	10.41	10.41	0.36	
4739.00	34.73	346.48	4719.92	129.84	21.42	124.53	11.02	10.65	-5.45	
4768.00	39.57	344.81	4743.03	148.80	17.07	141.97	17.05	16.69	-5.76	
4799.00	44.23	342.72	4766.10	166.66	11.27	162.52	15.69	15.03	-6.74	
4829.00	47.92	341.15	4786.91	187.20	4.56	183.88	12.86	12.30	-5.23	
4859.00	51.44	340.54	4806.32	208.80	-2.95	206.43	11.84	11.73	-2.03	
4888.00	54.78	340.46	4823.72	230.86	-10.69	229.27	11.52	11.52	-0.28	
4918.00	57.33	341.71	4840.47	254.20	-18.75	253.81	9.18	8.50	4.17	
4949.00	60.23	346.85	4856.55	279.71	-25.91	280.15	16.98	9.35	16.58	
4981.00	63.40	347.38	4871.66	307.20	-32.20	308.31	10.01	9.91	1.66	
5012.00	68.06	348.27	4884.40	334.82	-38.15	336.53	15.26	15.03	2.87	
5044.00	72.72	347.80	4895.14	364.30	-44.40	366.64	14.63	14.56	-1.47	
5077.00	74.92	348.28	4904.33	395.30	-50.97	398.30	6.81	6.67	1.45	
5109.00	75.10	345.87	4912.61	425.43	-57.88	429.15	7.30	0.56	-7.53	
5140.00	76.77	343.80	4920.14	454.45	-65.75	459.07	8.42	5.39	-6.68	
5172.00	80.28	343.86	4926.51	484.56	-74.48	490.21	10.97	10.97	0.19	
5204.00	82.13	344.03	4931.40	514.95	-83.23	521.63	5.81	5.78	0.53	
5236.00	86.26	343.69	4934.64	545.53	-92.08	553.24	12.95	12.91	-1.06	
5266.00	90.66	344.06	4935.44	574.33	-100.40	583.02	14.72	14.67	1.23	
5298.00	92.59	344.53	4934.54	605.12	-109.06	614.82	6.21	6.03	1.47	
5330.00	92.68	344.76	4933.07	635.95	-117.53	646.62	0.77	0.28	0.72	
5362.00	92.33	344.81	4931.67	666.79	-125.92	678.43	1.10	-1.09	0.16	
5393.00	91.80	344.46	4930.55	696.67	-134.12	709.25	2.05	-1.71	-1.13	

Weatherford International, Inc.

Survey Report



Company: Yates Petroleum	Date: 4/22/2008	Time: 07:32:29	Page: 3
Field: Lea Co. NM (NAD 83)	Coordinate (NE) Reference:	Site: Balco A/A Federal #3H	Grid: North
Site: Balco A/A Federal #3H	Vertical (TVD) Reference:	Site: 010	
Well: #3H	Section (VS) Reference:	Well: 0000000E135151A20	
Wellpath:	Survey Calculation Method:	Minimum Curvature	Dr: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
5426.00	91.45	344.57	4929.61	728.46	-142.93	742.05	1.11	-1.06	0.33	
5457.00	90.92	344.91	4928.97	758.36	-151.09	772.89	2.03	-1.71	1.10	
5489.00	90.75	344.58	4928.51	789.23	-159.51	804.72	1.16	-0.53	-1.03	
5520.00	90.75	345.23	4928.10	819.15	-167.58	835.57	2.10	0.00	2.10	
5577.00	90.63	344.95	4927.41	874.23	-182.24	892.31	0.53	-0.21	-0.49	
5608.00	89.44	344.82	4927.40	904.16	-190.33	923.16	3.88	-3.84	-0.42	
5641.00	90.06	346.32	4927.54	936.11	-198.55	956.04	4.92	1.88	4.55	
5678.00	92.88	348.45	4926.59	972.20	-206.83	992.97	9.55	7.62	5.76	
5709.00	93.50	348.45	4924.87	1002.53	-212.83	1023.90	2.00	2.00	0.00	
5741.00	93.06	349.20	4923.03	1033.87	-219.02	1055.83	2.71	-1.37	2.34	
5772.00	92.50	350.07	4921.53	1064.33	-224.59	1086.79	3.33	-1.81	2.81	
5805.00	92.50	350.45	4920.09	1098.82	-230.17	1119.76	1.15	0.00	1.15	
5836.00	90.50	350.70	4919.28	1127.39	-235.24	1150.75	6.50	-6.45	0.81	
5868.00	88.63	350.82	4919.52	1158.97	-240.38	1182.74	5.88	-5.84	0.37	
5900.00	89.00	350.82	4920.18	1190.56	-245.48	1214.74	1.16	1.16	0.00	
5931.00	89.56	351.07	4920.57	1221.17	-250.36	1245.73	1.98	1.81	0.81	
5963.00	90.38	350.95	4920.59	1252.77	-255.36	1277.73	2.59	2.56	-0.37	
5995.00	90.25	350.95	4920.41	1284.38	-260.39	1309.73	0.41	-0.41	0.00	
6027.00	89.44	350.82	4920.50	1315.97	-265.46	1341.73	2.56	-2.53	-0.41	
6059.00	90.00	350.95	4920.66	1347.57	-270.53	1373.73	1.80	1.75	0.41	
6090.00	90.50	350.82	4920.52	1378.18	-275.44	1404.73	1.67	1.61	-0.42	
6177.00	90.50	350.95	4919.76	1464.07	-289.23	1491.72	0.15	0.00	0.15	
6268.00	91.69	350.95	4918.02	1553.92	-303.54	1582.70	1.31	1.31	0.00	
6360.00	93.00	350.82	4914.28	1644.68	-318.10	1674.62	1.43	1.42	-0.14	
6452.00	94.56	350.70	4908.20	1735.29	-332.84	1766.42	1.70	1.70	-0.13	
6541.00	96.50	350.45	4899.62	1822.67	-347.34	1855.00	2.20	2.18	-0.28	
6571.00	97.56	350.20	4895.95	1852.02	-352.35	1884.77	3.63	3.53	-0.83	
6603.00	98.25	350.32	4891.55	1883.28	-357.71	1916.47	2.19	2.16	0.37	
6632.00	98.25	350.70	4887.38	1911.57	-362.44	1945.17	1.30	0.00	1.31	
6662.00	97.63	350.95	4883.24	1940.90	-367.18	1974.88	2.23	-2.07	0.83	
6692.00	97.44	351.07	4879.31	1970.28	-371.83	2004.62	0.75	-0.63	0.40	
6723.00	96.44	351.32	4875.56	2000.69	-376.54	2035.39	3.32	-3.23	0.81	
6754.00	95.81	351.32	4872.25	2031.16	-381.19	2066.21	2.03	-2.03	0.00	
6785.00	95.25	351.57	4869.27	2061.67	-385.78	2097.06	1.98	-1.81	0.81	
6815.00	94.75	351.82	4866.65	2091.24	-390.10	2126.94	1.86	-1.67	0.83	
6846.00	94.56	351.70	4864.14	2121.82	-394.52	2157.83	0.72	-0.61	-0.39	
6877.00	94.94	351.57	4861.57	2152.39	-399.02	2188.72	1.30	1.23	-0.42	
6898.00	95.00	351.45	4859.75	2173.08	-402.11	2209.64	0.64	0.29	-0.57	
6908.00	95.06	351.57	4858.87	2182.93	-403.58	2219.60	1.34	0.60	1.20	LAST SVY @ 6908' MD
6955.00	95.06	351.00	4854.73	2229.21	-410.67	2266.41	1.21	0.00	-1.21	PROJ TO BIT

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1500.00	1499.91	13.375	17.500	13 3/8"
3370.06	3369.15	9.625	12.250	9 5/8"
4469.50	4468.49	7.000	8.500	7"
7741.00	0.00	0.000	0.000	4 1/2"

Weatherford International, Inc.

Survey Report



Company: Yates Petroleum	Date: 4/2/2008	Time: 07:32:29	Page: 14
Field: Lea Co. NM (NAD 83)	Co-ordinate (NE) Reference:	Site: Belco AIA Federal #3H	Grid: North
Site: Belco AIA Federal #3H	Vertical (TVD) Reference:	SITE: 0.0	
Well: #3H	Section (VS) Reference:	Well: (0.00N, 0.00E, 310.51Az)	
Wellpath:	Survey Calculation Method:	Minimum Curvature	Dh: Sybase

Annotation

MD	TVD	
6908.00	4858.87	LAST SVY @ 6908' MD
6955.00	4854.73	PROJ TO BIT