

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 rrvs				
		Austin		
Queen				
Penrose				
Grayburg				
San Andres				
Glorieta				
Blinbry				
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

SUR: J-14-20s-32e, 1980/S & 1830/E
 BHL: B-14-20s-32e, 4209/S & 2241/E
 API # 30-025-38719

YATES PETROLEUM CORPORATION

BELCO AIA FEDERAL #3H
 LEA CO., NEW MEXICO

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	3405.00	0.40	46.93	3404.09	41.75	36.90	0.00	0.00	35.09	
2	4431.33	0.40	46.93	4430.39	46.80	42.30	0.00	0.00	39.18	
3	5199.17	50.00	349.51	4925.95	516.70	-41.82	12.00	-57.42	516.52	
4	7703.97	90.00	349.51	4926.00	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	725376.34	32°34'16.50"N	103°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	725378.53	Point

SITE DETAILS

Belco AIA Federal #3H
 SEC 14, T-20-S, R-32-E
 Site Centre Northing: 572113.04
 Easting: 725376.34
 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°

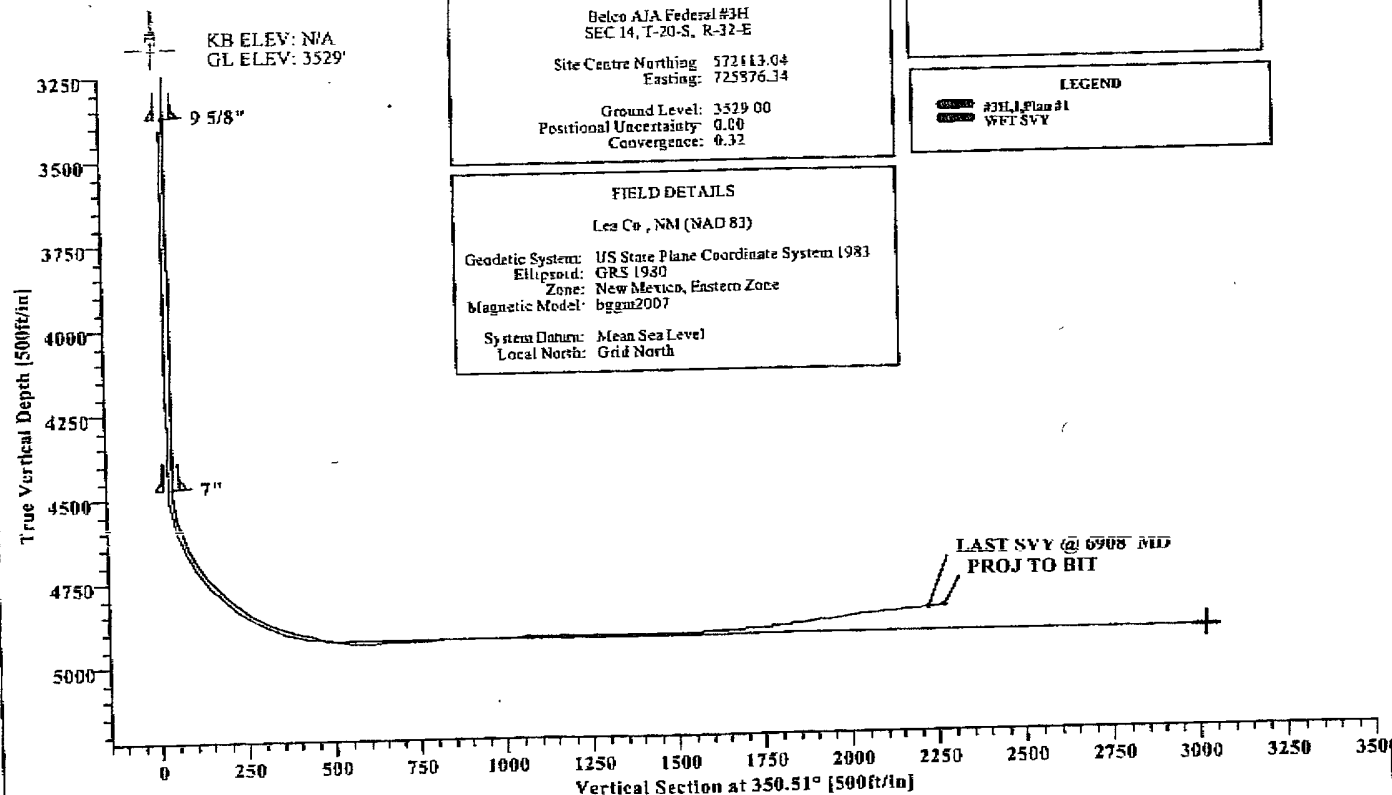
Magnetic Field
 Strength: 49185nT
 Dip Angle: 60.57°
 Date: 3/22/2008
 Model: bggm2007

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	1499.91	1500.00	Rustler
2	3419.15	3420.06	Capitan Reef
3	4649.64	4657.45	Lamar
4	4687.56	4694.75	Delaware
5	4902.85	5071.37	Cherry Canyon
6	4917.13	5127.16	Belec Sand

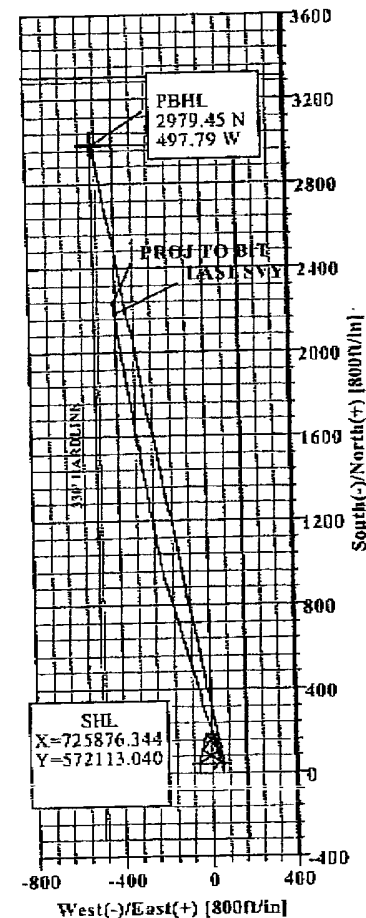
LEGEND

33H LFLand #1
 WFT SVY



VERTICAL SECTION

VERTICAL SECTION AZIMUTH: 350.51°



Survey: WFT SVY (A3H11)
 Created By: Lindsey Maddux
 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: 1	Date: 4/2/2008 Time: 07:32:29 Coordinate (N/S) Reference: SITE 0.0 Vertical (TVD) Reference: Well (0.00N 0.00E 3.051 Az) 1 Section (VS) Reference: Minimum Curvature Survey Calculation Method:	Page: 1 Grid North: Grid East: Dt: Sysbase
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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: Soto Centre
Geomagnetic Model: bggm2007

Site: Belco AIA Federal #3H

SEC 14, T-20-S, R-32-E

Site Position:	Northing: 572113.04 ft	Latitude: 32 34 16.907 N
From: Map	Easting: 725876.34 ft	Longitude: 103 44 3.439 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3529.00 ft		Grid Convergence: 0.32 deg

Well: #3H

Slot Name:

Well Position:	Northing: 572113.04 ft	Latitude: 32 34 16.907 N
+N/-S 0.00 ft	Easting: 725876.34 ft	Longitude: 103 44 3.439 W
+E/-W 0.00 ft		
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 0.00 ft	Drilled From: Surface
Magnetic Data: 3/22/2008		Tie-on Depth: 0.00 ft
Field Strength: 49185 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S ft	Declination: 8.11 deg
		Mag Dip Angle: 60.57 deg
		+E/-W ft
		Direction deg
0.00	0.00	0.00 350.51

Survey: WFT SVY

Start Date: 3/24/2008

Company: Weatherford International, Inc
Tool:

Engineer: Lindsey Maddux
Tied-to: User Defined

Survey: WFT SVY

TVD	Incl	Azin	TVD	N/S	E/W	VS	DUS	Bulu	Tura	col/Comment
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	13 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	30.06	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	0.86	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: 4/22/2008	Time: 07:32:25	Page: 12
Field: Baco NM (NAD 83)	Coordinate (N) Reference: State Plane NAD 83	Site: Baco AIA Federal #3H	Well: 95H (Grid North)
State: Baco AIA Federal #3H	Vertical (TVD) Reference: SITE 0.0	Well: 0.00N 0.00E 34.051 (Az)	Dr: Sybase
Well: #3H	Section (VS) Reference: Minimum Curvature		
Wellpath:	Survey Calculation Method:		

Survey: WFT SVY

MD	Incl	Azim	TVD	N-S	E-W	VS	DLS	Build	Turn	Tool/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	0.62	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	45.81	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	146.80	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	206.80	-2.95	206.43	11.84	11.73	-2.03	
4888.00	54.78	340.46	4823.72	230.66	-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	4912.01	425.43	-57.88	429.15	7.30	0.58	-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: 4/2/2008	Time: 07:32:29	Page: 3
Head: Lee C. NM (NAD 83)	Coordinate (NE) Reference:	Sta/Balco AIA Federal #31	Grid North
Site: Balco AIA Federal #3H	Vertical (TVD) Reference:	SITE 010	
Well: #3H	Section (N/S) Reference:	Well (0.00N, 0.00E, 35.00S) (Az)	
Wellpath:	Survey Calculation Method:	Minimum Curvature	Db: Sysbase

Survey: WFT SVY

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	Buil	Turn	Lo	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft		
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	3.86	-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	-206.63	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	1096.82	-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	5.86	-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	97.96	350.20	4895.95	1852.02	-352.35	1884.77	3.63	3.53	-0.83		
6603.00	98.25	350.32	4891.55	1883.26	-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	TVD	Diameter	Hole Size	Name
ft	ft	in	in	
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"

Company: Yates Petroleum Field: Lebo Co. NM (NAD 83) Site: Balco A/A Federal #34 Well: #34		Date: 4/2/2008 Time: 07:32:29 Site: Balco A/A Federal #34 Well: #34	
Co-ordinate (NAD) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:		Minimum Curve: Well (0.00N/0.00E) 30.5 (AZ) DH: Sybase	
Annotation TVD 6908.00 4858.87 LAST SVY @ 6908' MD 6955.00 4854.73 PROJ TO BIT			

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Survey Report