

OXY USA INC.
Skinny Salon State #2

slot #1
Skinny Salon State #2
Eddy County New Mexico

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD SURVEY
Our ref : svyl767
License :

Date printed : 31-Jan-2002
Date created : 19-Sep-2001
Last revised : 19-Sep-2001

Field is centred on n32 10 0.000,w104 5 0
Structure is centred on n32 48 0.000,w104 9 0.000,0

Slot location is n32 48 0.000,w104 9 0.000
Slot Grid coordinates are N 654799.836, E 556333.435
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

Measured Depth	Inclin Degrees	Azimuth Degrees	True Depth	VERT COR D	ANG LES	Dogleg Deg/100ft	VERT SECT	EASTING	COR D	NORTHING
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	556333.43	654799.84	
100.00	0.22	220.69	100.00	0.15S	0.13W	0.22	0.19	556333.31	654799.69	
200.00	0.20	271.25	200.00	0.29S	0.43W	0.18	0.51	556333.01	654799.55	
300.00	0.22	279.52	300.00	0.25S	0.79W	0.03	0.76	556332.64	654799.58	
400.00	0.25	295.57	400.00	0.13S	1.18W	0.08	0.96	556332.26	654799.71	
500.00	0.48	296.10	500.00	0.15N	1.76W	0.23	1.19	556331.68	654799.99	
600.00	0.34	283.69	599.99	0.41N	2.43W	0.17	1.51	556331.01	654800.24	
700.00	0.28	329.47	699.99	0.69N	2.84W	0.25	1.63	556330.59	654800.53	
800.00	0.20	15.97	799.99	1.08N	2.92W	0.21	1.43	556330.51	654800.91	
900.00	0.31	260.63	899.99	1.20N	3.14W	0.43	1.50	556330.30	654801.03	
1000.00	0.20	213.93	999.99	1.01N	3.50W	0.22	1.90	556329.94	654800.85	
1100.00	0.38	234.30	1099.99	0.68N	3.86W	0.21	2.39	556329.57	654800.51	
1200.00	0.50	202.17	1199.99	0.08N	4.30W	0.27	3.12	556329.14	654799.91	
1300.00	0.57	225.64	1299.98	0.68S	4.82W	0.23	4.01	556328.62	654799.15	
1400.00	0.41	240.39	1399.98	1.20S	5.48W	0.21	4.85	556327.96	654798.63	
1500.00	0.48	243.04	1499.97	1.56S	6.16W	0.08	5.60	556327.28	654798.26	
1600.00	0.55	235.19	1599.97	2.03S	6.93W	0.09	6.48	556326.51	654797.80	
1700.00	0.65	245.07	1699.96	2.54S	7.84W	0.15	7.50	556325.60	654797.28	
1800.00	0.68	264.84	1799.96	2.83S	8.94W	0.23	8.51	556324.50	654796.99	
1900.00	0.54	266.87	1899.95	2.91S	10.00W	0.14	9.34	556323.44	654796.91	
2000.00	0.54	269.06	1999.95	2.94S	10.94W	0.02	10.06	556322.50	654796.87	
2100.00	0.48	268.59	2099.94	2.96S	11.83W	0.06	10.73	556321.61	654796.85	
2200.00	0.43	262.81	2199.94	3.02S	12.62W	0.07	11.35	556320.82	654796.79	
2300.00	0.20	259.52	2299.94	3.10S	13.17W	0.23	11.81	556320.27	654796.71	
2400.00	0.18	231.65	2399.94	3.23S	13.46W	0.09	12.11	556319.98	654796.59	
2500.00	0.12	165.09	2499.94	3.42S	13.56W	0.17	12.31	556319.89	654796.39	
2600.00	0.27	140.46	2599.94	3.70S	13.38W	0.17	12.37	556320.06	654796.11	
2700.00	0.28	120.59	2699.94	4.00S	13.02W	0.10	12.31	556320.42	654795.81	
2800.00	0.35	107.26	2799.94	4.22S	12.52W	0.10	12.09	556320.92	654795.60	
2900.00	0.50	103.80	2899.93	4.41S	11.81W	0.16	11.70	556321.63	654795.40	
3000.00	0.32	109.32	2999.93	4.61S	11.12W	0.18	11.32	556322.32	654795.21	
3100.00	0.47	136.31	3099.93	5.00S	10.57W	0.24	11.18	556322.87	654794.82	
3200.00	0.42	101.71	3199.92	5.37S	9.93W	0.27	10.95	556323.52	654794.45	
3300.00	0.46	135.45	3299.92	5.73S	9.29W	0.26	10.72	556324.16	654794.09	
3400.00	0.17	144.63	3399.92	6.13S	8.92W	0.29	10.72	556324.52	654793.69	

Measured Incln Depth	Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
3500.00	0.24	89.45	3499.92	6.25S 8.63W	0.20	10.58	556324.82	654793.57
3600.00	0.04	106.96	3599.92	6.25S 8.38W	0.20	10.41	556325.06	654793.57
3700.00	0.26	52.48	3699.92	6.13S 8.17W	0.24	10.16	556325.28	654793.70
3800.00	0.22	127.00	3799.92	6.10S 7.84W	0.29	9.90	556325.61	654793.72
3900.00	0.06	82.43	3899.92	6.21S 7.63W	0.18	9.82	556325.82	654793.61
4000.00	0.21	140.03	3999.92	6.34S 7.46W	0.18	9.78	556325.99	654793.48
4100.00	0.04	155.95	4099.92	6.51S 7.33W	0.17	9.80	556326.12	654793.31
4200.00	0.29	119.15	4199.92	6.67S 7.09W	0.26	9.73	556326.35	654793.16
4300.00	0.17	159.38	4299.92	6.93S 6.82W	0.19	9.71	556326.63	654792.89
4400.00	0.36	108.48	4399.92	7.17S 6.47W	0.28	9.61	556326.98	654792.65
4500.00	0.06	86.69	4499.91	7.27S 6.12W	0.30	9.42	556327.33	654792.56
4600.00	0.27	152.38	4599.91	7.47S 5.96W	0.25	9.44	556327.49	654792.36
4700.00	0.06	88.36	4699.91	7.68S 5.79W	0.25	9.46	556327.65	654792.15
4800.00	0.23	68.50	4799.91	7.60S 5.55W	0.18	9.22	556327.90	654792.23
4884.00	0.40	107.30	4883.91	7.62S 5.11W	0.31	8.92	556328.34	654792.20

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 120.74 on azimuth 227.57 degrees from wellhead.
Vertical section is from wellhead on azimuth 227.57 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

OXY USA INC.

Skinny Salon State #2,slot #1

Skinny Salon State #2,Eddy County New Mexico

SURVEY LISTING

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Your ref : MWD SURVEY

Last revised : 19-Sep-2001

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Eastng	C O O R D S Northing
4918.00	0.60	187.80	4917.91	7.84S	1.95	8.99	556328.43	654791.99
4944.00	1.10	209.70	4943.91	8.19S	2.26	9.34	556328.29	654791.64
4976.00	1.70	221.70	4975.90	8.81S	2.08	10.10	556327.82	654791.02
5006.00	2.20	231.80	5005.88	9.50S	2.02	11.12	556327.07	654790.33
5037.00	3.00	238.40	5036.85	10.29S	2.75	12.51	556325.91	654789.53
5099.00	4.20	243.30	5098.73	12.16S	2.00	16.29	556322.51	654787.66
5161.00	4.30	243.60	5160.56	14.21S	0.17	20.71	556318.40	654785.60
5223.00	4.40	240.30	5222.38	16.43S	0.43	25.26	556314.26	654783.38
5284.00	4.60	237.10	5283.19	18.91S	0.53	29.95	556310.18	654780.88
5347.00	4.40	235.90	5345.99	21.64S	0.35	34.84	556306.06	654778.15
5409.00	4.40	235.40	5407.81	24.33S	0.06	39.55	556302.14	654775.46
5471.00	4.40	233.30	5469.63	27.10S	0.26	44.27	556298.28	654772.68
5534.00	4.20	231.30	5532.45	29.98S	0.40	48.98	556294.54	654769.79
5596.00	4.50	229.40	5594.27	32.99S	0.54	53.67	556290.93	654766.78
5658.00	4.60	228.10	5656.08	36.23S	0.23	58.59	556287.24	654763.53
5719.00	4.60	228.40	5716.88	39.49S	0.04	63.48	556283.60	654760.27
5779.00	4.50	226.40	5776.69	42.71S	0.31	68.24	556280.10	654757.04
5872.00	4.70	226.00	5869.39	47.87S	0.22	75.70	556274.73	654751.87
5964.00	4.70	225.40	5961.08	53.14S	0.05	83.23	556269.34	654746.59
6057.00	4.70	224.30	6053.77	58.54S	0.10	90.84	556263.98	654741.18
6151.00	4.60	223.90	6147.46	64.01S	0.11	98.45	556258.68	654735.70
6243.00	4.50	221.70	6239.17	69.36S	0.22	105.72	556253.73	654730.34
6306.00	3.90	219.80	6302.00	72.85S	0.98	110.30	556250.72	654726.85
6368.00	3.50	217.40	6363.87	75.98S	0.69	114.25	556248.23	654723.72
6430.00	2.80	215.60	6425.78	78.71S	1.14	117.60	556246.20	654720.98
6462.00	2.40	211.40	6457.75	79.92S	1.38	119.01	556245.40	654719.77
6505.00	2.40	211.40	6500.71	81.46S	0.00	120.74	556244.47	654718.23

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 120.74 on azimuth 227.57 degrees from wellhead.

Vertical section is from wellhead on azimuth 227.57 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

OXY USA INC.

Skinny Salon State #2,slot #1

West Shugart 31 Federal,Eddy County New Mexico

SURVEY LISTING Page 3

Your ref : MWD SURVEY

Last revised : 19-Sep-2001

Comments in wellpath

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Comment

MD TVD Rectangular Coords.

6505.00 6500.71

81.46S

89.12W PROJECTION TO BIT

NO Targets associated with this wellpath

OXY ---A INC.
Skinny S. n State #2

slot #1
Skinny Salon State #2
Eddy County New Mexico

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : Gyro Survey
Our ref : svyl703
License :

Date printed : 31-Jan-2002
Date created : 25-May-2001
Last revised : 19-Sep-2001

Field is centred on n32 10 0.000,w104 5 0
Structure is centred on n32 48 0.000,w104 9 0.000,0

Slot location is n32 48 0.000,w104 9 0.000
Slot Grid coordinates are N 654799.836, E 556333.435
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

OXY USA INC.

Skinny Salon State #2,slot #1

Skinny Salon State #2,Eddy County New Mexico

SURVEY LISTING

Page

Your ref : Gyro Survey

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Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
0.00	0.00	0.00	0.00	0.00N	0.00	0.00	556333.43	654799.84
100.00	0.22	220.69	100.00	0.15S	0.22	0.19	556333.31	654799.69
200.00	0.20	271.25	200.00	0.29S	0.18	0.51	556333.01	654799.55
300.00	0.22	279.52	300.00	0.25S	0.03	0.74	556332.64	654799.58
400.00	0.25	295.57	400.00	0.13S	0.08	0.92	556332.26	654799.71
500.00	0.48	296.10	500.00	0.15N	0.23	1.13	556331.68	654799.99
600.00	0.34	283.69	599.99	0.41N	0.17	1.43	556331.01	654800.24
700.00	0.28	329.47	699.99	0.69N	0.25	1.52	556330.59	654800.53
800.00	0.20	15.97	799.99	1.08N	0.21	1.30	556330.51	654800.91
900.00	0.31	260.63	899.99	1.20N	0.43	1.37	556330.30	654801.03
1000.00	0.20	213.93	999.99	1.01N	0.22	1.75	556329.94	654800.85
1100.00	0.38	234.30	1099.99	0.68N	0.21	2.25	556329.57	654800.51
1200.00	0.50	202.17	1199.99	0.08N	0.27	2.98	556329.14	654799.91
1300.00	0.57	225.64	1299.98	0.68S	0.23	3.88	556328.62	654799.15
1400.00	0.41	240.39	1399.98	1.20S	0.21	4.72	556327.96	654798.63
1500.00	0.48	243.04	1499.97	1.56S	0.08	5.46	556327.28	654798.26
1600.00	0.55	235.19	1599.97	2.03S	0.09	6.33	556326.51	654797.80
1700.00	0.65	245.07	1699.96	2.54S	0.15	7.34	556325.60	654797.28
1800.00	0.68	264.84	1799.96	2.83S	0.23	8.33	556324.50	654796.99
1900.00	0.54	266.87	1899.95	2.91S	0.14	9.13	556323.44	654796.91
2000.00	0.54	269.06	1999.95	2.94S	0.02	9.82	556322.50	654796.87
2100.00	0.48	268.59	2099.94	2.96S	0.06	10.46	556321.61	654796.85
2200.00	0.43	262.81	2199.94	3.02S	0.07	11.06	556320.82	654796.79
2300.00	0.20	259.52	2299.94	3.10S	0.23	11.50	556320.27	654796.71
2400.00	0.18	231.65	2399.94	3.23S	0.09	11.80	556319.98	654796.59
2500.00	0.12	165.09	2499.94	3.42S	0.17	12.01	556319.89	654796.39
2600.00	0.27	140.46	2599.94	3.70S	0.17	12.08	556320.06	654796.11
2700.00	0.28	120.59	2699.94	4.00S	0.10	12.04	556320.42	654795.81
2800.00	0.35	107.26	2799.94	4.22S	0.10	11.84	556320.92	654795.60
2900.00	0.50	103.80	2899.93	4.41S	0.16	11.47	556321.63	654795.40
3000.00	0.32	109.32	2999.93	4.61S	0.18	11.12	556322.32	654795.21
3100.00	0.47	136.31	3099.93	5.00S	0.24	11.01	556322.87	654794.82
3200.00	0.42	101.71	3199.92	5.37S	0.27	10.82	556323.52	654794.45
3300.00	0.46	135.45	3299.92	5.73S	0.26	10.62	556324.16	654794.09
3400.00	0.17	144.63	3399.92	6.13S	0.29	10.65	556324.52	654793.69

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L C O O R D I N A T E S	R Dogleg Deg/100ft	Vert Sect	G R I D Eastings	G R I D Northings
3500.00	0.24	89.45	3499.92	6.25S	8.63W	10.52	556324.82	654793.57
3600.00	0.04	106.96	3599.92	6.25S	8.38W	10.35	556325.06	654793.57
3700.00	0.26	52.48	3699.92	6.13S	8.17W	10.11	556325.28	654793.70
3800.00	0.22	127.00	3799.92	6.10S	7.84W	9.86	556325.61	654793.72
3900.00	0.06	82.43	3899.92	6.21S	7.63W	9.79	556325.82	654793.61
4000.00	0.21	140.03	3999.92	6.34S	7.46W	9.76	556325.99	654793.48
4100.00	0.04	155.95	4099.92	6.51S	7.33W	9.79	556326.12	654793.31
4200.00	0.29	119.15	4199.92	6.67S	7.09W	9.73	556326.35	654793.16
4300.00	0.17	159.38	4299.92	6.93S	6.82W	9.72	556326.63	654792.89
4400.00	0.36	108.48	4399.92	7.17S	6.47W	9.65	556326.98	654792.65
4500.00	0.06	86.69	4499.91	7.27S	6.12W	9.47	556327.33	654792.56
4600.00	0.27	152.38	4599.91	7.47S	5.96W	9.50	556327.49	654792.36
4700.00	0.06	88.36	4699.91	7.68S	5.79W	9.53	556327.65	654792.15
4800.00	0.23	68.50	4799.91	7.60S	5.55W	9.30	556327.90	654792.23
4884.00	0.40	107.30	4883.91	7.62S	5.11W	9.01	556328.34	654792.20

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 119.01 on azimuth 227.81 degrees from wellhead.

Vertical section is from wellhead on azimuth 225.00 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

OXY USA INC.

Skinny Salon State #2,slot #1
Skinny Salon State #2,Eddy County New Mexico

SURVEY LISTING Page 2
Your ref : Gyro Survey
Last revised : 19-Sep-2001

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
4918.00	0.60	187.80	4917.91	7.84S	1.95	9.09	556328.43	654791.99
4944.00	1.10	209.70	4943.91	8.19S	2.26	9.44	556328.29	654791.64
4976.00	1.70	221.70	4975.90	8.81S	2.08	10.21	556327.82	654791.02
5006.00	2.20	231.80	5005.88	9.50S	2.02	11.23	556327.07	654790.33
5037.00	3.00	238.40	5036.85	10.29S	2.75	12.61	556325.91	654789.53
5099.00	4.20	243.30	5098.73	12.16S	2.00	16.34	556322.51	654787.66
5161.00	4.30	243.60	5160.56	14.21S	0.17	20.70	556318.40	654785.60
5223.00	4.40	240.30	5222.38	16.43S	0.43	25.20	556314.26	654783.38
5284.00	4.60	237.10	5283.19	18.91S	0.53	29.85	556310.18	654780.88
5347.00	4.40	235.90	5345.99	21.64S	0.35	34.69	556306.06	654778.15
5409.00	4.40	235.40	5407.81	24.33S	0.06	39.36	556302.14	654775.46
5471.00	4.40	233.30	5469.63	27.10S	0.26	44.06	556298.28	654772.68
5534.00	4.20	231.30	5532.45	29.98S	0.40	48.74	556294.54	654769.79
5596.00	4.50	229.40	5594.27	32.99S	0.54	53.42	556290.93	654766.78
5658.00	4.60	228.10	5656.08	36.23S	0.23	58.33	556287.24	654763.53
5719.00	4.60	228.40	5716.88	39.49S	0.04	63.21	556283.60	654760.27
5779.00	4.50	226.40	5776.69	42.71S	0.31	67.97	556280.10	654757.04
5872.00	4.70	226.00	5869.39	47.87S	0.22	75.43	556274.73	654751.87
5964.00	4.70	225.40	5961.08	53.14S	0.05	82.96	556269.34	654746.59
6057.00	4.70	224.30	6053.77	58.54S	0.10	90.58	556263.98	654741.18
6151.00	4.60	223.90	6147.46	64.01S	0.11	98.20	556258.68	654735.70
6243.00	4.50	221.70	6239.17	69.36S	0.22	105.49	556253.73	654730.34
6306.00	3.90	219.80	6302.00	72.85S	0.98	110.10	556250.72	654726.85
6368.00	3.50	217.40	6363.87	75.98S	0.69	114.07	556248.23	654723.72
6430.00	2.80	215.60	6425.78	78.71S	1.14	117.44	556246.20	654720.98
6462.00	2.40	211.40	6457.75	79.92S	1.38	118.86	556245.40	654719.77