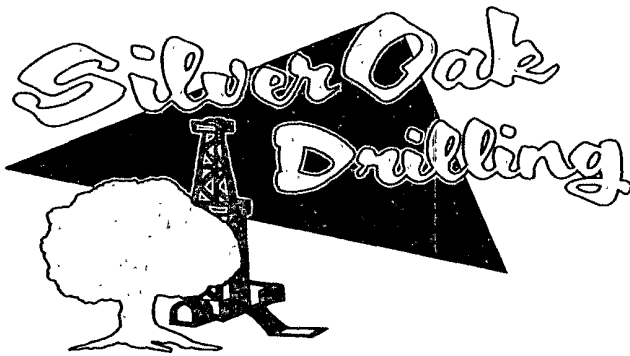




PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

30-015-39483

March 5, 2012

Yates Petroleum Corporation
105 S. 4th
Artesia, NM 88211-1395

RE: Puppy BPP St Com #1Y
390' FNL & 200' FWL
Sec. 2, T17S, R27E
Eddy County, New Mexico

Dear Sir,

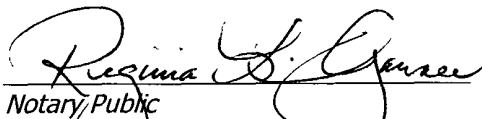
The attached is the Deviation Survey for the above captioned well.

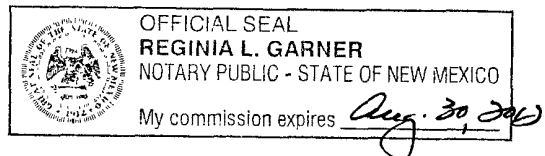
Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 5th day of March, 2012.


Notary Public



PUPPY-BPP ST.COM 1-Y

#	Date	Depth	Deviation	Direction	TVD	Horiz
1/29/2012		190	0.1	0	0	0
1/29/2012		319	1.3	0	0	0
2/1/2012		610	1.7	0	0	0
2/1/2012		912	1.6	0	0	0
2/2/2012		1175	2.4	0	0	0
2/2/2012		1343	1.7	0	0	0
2/3/2012		1522	0.7	0	0	0
2/3/2012		1619	1.3	0	0	0
2/5/2012		1712	0.6	0	0	0
2/6/2012		1965	0.6	0	0	0
2/6/2012		2213	0.4	0	0	0
2/6/2012		2476	0.1	0	0	0
2/6/2012		2728	0.9	0	0	0
2/7/2012		3230	0.7	0	0	0
2/7/2012		3740	0.2	0	0	0
2/9/2012		4340	0.6	0	0	0
2/10/2012		4660	0.5	0	0	0
2/10/2012		5005	0.5	0	0	0
2/11/2012		5295	0.5	0	0	0
2/12/2012		5648	0.5	0	0	0
2/13/2012		5930	1.1	0	0	0
2/17/2012		5630	1.76	58.63	5628	24.30
2/17/2012		5662	3.43	73.75	5660	23.70
2/18/2012		5694	6.51	82.43	5692	23.20
2/18/2012		5725	10.11	-86.32	5723	22.80
2/18/2012		5757	13.72	89.83	5754	22.67
2/18/2012		5789	17.24	92.73	5785	-38.87
2/18/2012		5820	20.84	93.61	5814	-28.84
2/18/2012		5854	24.71	95.72	5846	-15.70
2/18/2012		5889	29.11	97.39	5877	0.06
2/18/2012		5920	33.41	97.57	5903	16.12
2/19/2012		5951	37.46	96.51	5929	34.00
2/19/2012		5982	41.59	96.42	5953	53.00
2/19/2012		6013	46.25	96.60	5975	105.00
2/19/2012		6045	50.56	98.27	5996	99.00
2/19/2012		6107	56.54	100.82	6003	149.00
2/20/2012		6137	59.53	101.52	6049	174.00
2/20/2012		6168	63.31	101.70	6063	201.00
2/20/2012		6200	67.36	101.52	6077	230.00
2/20/2012		6262	72.46	101.08	6098	289.00
2/20/2012		6293	75.80	101.43	6106	319.00
2/20/2012		6325	80.11	101.43	6113	350.00
2/21/2012		6417	89.34	100.73	6119	442.00

#	Date	Depth	Deviation	Direction	TVD	Horiz
	2/21/2012	6386	88.81	100.73	6118	411.00
	2/21/2012	6511	89.60	100.64	6120	535.00
	2/21/2012	6604	89.78	100.55	6121	628.00
	2/22/2012	6698	89.60	99.85	6121.1	722.00
	2/22/2012	6791	90.40	99.32	6121	815.00
	2/22/2012	6884	89.96	98.80	6121	908.00
	2/22/2012	6978	90.04	99.24	6121	1002.00
	2/22/2012	7076	89.52	99.06	6121	1096.00
	2/22/2012	7175	89.25	99.24	6132	1189.00
	2/22/2012	7268	89.52	99.24.00	6133	1283.00
	2/22/2012	7361	89.16	98.97	6134	1375.00
	2/23/2012	7454	88.81	98.88	6135	1468.00
	2/23/2012	7547	88.81	99.68	6137	1561.00
	2/23/2012	7640	88.99	99.59	6139	1654.00
	2/23/2012	7734	88.20	99.94	6141	1748.00
	2/23/2012	7827	89.25	99.85	6144	1841.00
	2/23/2012	7921	88.90	99.94	6145	1935.00
	2/23/2012	8015	88.55	100.26	6147	2029.00
	2/24/2012	8078	88.29	100.38	6149	2092.00
	2/24/2012	8148	88.81	100.38	6151	2162.00
	2/25/2012	8242	90.48	100.47	6151	2256.00
	2/25/2012	8335	90.75	100.73	6150	2349.00
	2/25/2012	8429	92.15	100.73	6148	2443.00
	2/25/2012	8522	92.24	100.73	6145	2536.00
	2/25/2012	8617	92.24	100.64	6141	2631.00
	2/25/2012	8710	92.33	100.38	6137	2724.00
	2/26/2012	8804	92.07	100.38	6134	2818.00
	2/26/2012	8896	91.28	100.12	6131	2910.00
	2/26/2012	8990	90.66	99.94	6130	3004.00
	2/26/2012	9083	91.19	99.76	6128	3097.00
	2/27/2012	9176	91.28	99.68	6127	3190.00
	2/27/2012	9269	91.63	99.68	6124	3283.00
	2/27/2012	9362	91.63	99.76	6121	3376.00
	2/28/2012	9460	91.80	100.16	6118	3473.00
	2/28/2012	9553	90.31	100.15	6116	3566.00
	2/28/2012	9647	88.99	100.09	6117	3661.00
	2/28/2012	9739	88.02	99.79	6120	3753.00
	2/29/2012	9833	88.29	100.22	6123	3847.00
	2/29/2012	9926	88.55	100.18	6125	3940.00
	2/29/2012	10019	88.55	100.64	6127	4032.00
	2/29/2012	10112	88.02	100.71	6130	4125.00
	2/29/2012	10205	88.20	100.77	6133	4218.00

EOF



Job Number: SVCO-120220
 Company: Yates Petroleum Corporation
 Lease/Well: PUPPY BPP STATE COM 1Y
 Location: Eddy County, NM
 Rig Name: Silver Oak #10
 RKB: 18'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.84°
 Grid: East To Grid
 File name: F:\SURVEY\2012SU-1\YATES\CONROE\PUPPY1Y.SVY
 Date/Time: 15-Feb-12 / 13:53
 Curve Name: Surface - 6350' M.D. (Gyroscopic)

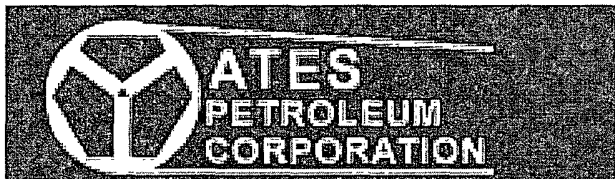
WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 100.26
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 6350' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

Dana Jutte 2/15/12
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.75	259.82	199.99	-.23	-1.29	-1.23	1.31	259.82	.38
400.00	2.00	241.06	399.93	-2.15	-5.63	-5.16	6.03	249.09	.66
600.00	2.25	226.26	599.80	-6.55	-11.52	-10.17	13.26	240.36	.30
800.00	1.75	230.48	799.68	-11.21	-16.71	-14.45	20.13	236.14	.26
1000.00	2.50	233.67	999.54	-15.74	-22.58	-19.42	27.53	235.13	.38
1200.00	2.75	241.78	1199.33	-20.59	-30.33	-26.17	36.66	235.82	.22
1400.00	1.50	257.01	1399.19	-23.45	-37.10	-32.33	43.89	237.71	.68
1600.00	1.00	277.23	1599.14	-23.82	-41.39	-36.48	47.75	240.08	.33
1800.00	.75	261.44	1799.12	-23.79	-44.41	-39.46	50.38	241.82	.17

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2000.00	.75	255.55	1999.10	-24.32	-46.97	-41.89	52.89	242.63	.04
2200.00	.50	241.76	2199.09	-25.06	-49.01	-43.76	55.04	242.92	.15
2400.00	.25	156.97	2399.08	-25.87	-49.61	-44.21	55.95	242.46	.27
2600.00	.25	200.18	2599.08	-26.68	-49.59	-44.04	56.31	241.72	.09
2800.00	.50	123.29	2799.08	-27.57	-49.01	-43.32	56.23	240.64	.25
3000.00	.25	68.46	2999.07	-27.89	-47.87	-42.14	55.40	239.78	.21
3200.00	.25	197.67	3199.07	-28.14	-47.60	-41.83	55.30	239.41	.23
3400.00	.25	218.78	3399.07	-28.90	-48.01	-42.09	56.03	238.95	.05
3600.00	.50	228.99	3599.07	-29.81	-48.94	-42.85	57.30	238.65	.13
3800.00	1.00	223.20	3799.05	-31.66	-50.79	-44.34	59.85	238.07	.25
4000.00	.50	283.64	3999.03	-32.72	-52.83	-46.16	62.15	238.23	.43
4200.00	.25	270.75	4199.03	-32.51	-54.12	-47.46	63.13	239.00	.13
4400.00	.75	296.97	4399.02	-31.91	-55.72	-49.15	64.21	240.20	.27
4600.00	1.00	285.17	4599.00	-30.86	-58.57	-52.14	66.21	242.21	.15
4800.00	1.00	273.25	4798.97	-30.31	-62.00	-55.61	69.01	243.95	.10
5000.00	.75	260.46	4998.95	-30.42	-65.03	-58.57	71.80	244.93	.16
5200.00	.75	335.63	5198.93	-29.45	-66.86	-60.55	73.06	246.23	.46
5400.00	.50	347.74	5398.92	-27.40	-67.59	-61.63	72.93	247.93	.14
5600.00	1.00	1.95	5598.90	-24.81	-67.71	-62.21	72.12	249.88	.26
5800.00	1.25	41.15	5798.87	-21.42	-66.22	-61.35	69.60	252.08	.40
6000.00	1.50	26.37	5998.81	-17.43	-63.62	-59.50	65.97	254.68	.22
6200.00	1.25	26.61	6198.75	-13.14	-61.48	-58.16	62.87	257.94	.13
Last Survey Depth Recorded									
6350.00	1.50	29.06	6348.71	-9.96	-59.80	-57.07	60.62	260.55	.17



Yates Petroleum Corp.

Eddy County (NAD 83)
Puppy "BPP" State Com
#1HY
OH

Design: OH

PathfinderX & Y Report

01 March, 2012

PATHFINDER[®]
A Schlumberger Company



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1HY
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Site:	Puppy "BPP" State Com	MD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Well:	#1HY	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:		Puppy "BPP" State Com			
Site Position:		Northing:		680,499 348 usft	
From:		Easting:		565,329 791 usft	
Position Uncertainty:		Slot Radius:		13-3/16 "	
Map				Latitude:	
				32° 52' 14 483 N	
				Longitude:	
				104° 15' 18 678 W	
				Grid Convergence:	
				0.04 °	

Well: #1HY						
Well Position	+N/-S	0 0 usft	Northing:	680,499 348 usft	Latitude:	32° 52' 14 483 N
	+E/-W	0 0 usft	Easting:	565,329 791 usft	Longitude:	104° 15' 18 678 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,425 0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/6/2011	7 88	60 68	48,920

Design:		OH			
Audit Notes:					
Version:	10	Phase:	ACTUAL	Tie On Depth:	00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	00	00	00	100 26	



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well: #1HY
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Site:	Puppy BPP, State Com	MD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Well:	#1HY	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date: 3/1/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200 0	5,600 0	Gyro #1 (OH)	CB-GYRO-MS	Camera based gyro multishot	
5,600 0	10,350 0	MWD #1 (OH)	MWD	MWD - Standard	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0 0	0 00	0 00	0 0	-3,443 0	0 0	0 0	0 0	0 00	680,499 35	565,329 79
200 0	0 75	259 82	200 0	-3,243.0	-0 2	-1 3	-1 2	0 37	680,499 12	565,328 50
400 0	2 00	241 06	399 9	-3,043 1	-2 2	-5 6	-5 2	0 66	680,497 20	565,324 16
600 0	2 25	226 26	599 8	-2,843 2	-6 6	-11 5	-10 2	0 30	680,492.79	565,318 27
800 0	1 75	230 48	799 7	-2,643.3	-11 2	-16 7	-14 5	0 26	680,488 14	565,313 08
1,000 0	2 50	233 67	999 5	-2,443 5	-15 7	-22 6	-19 4	0 38	680,483 61	565,307 21
1,200 0	2 75	241 78	1,199 3	-2,243 7	-20 6	-30 3	-26 2	0 22	680,478 76	565,299 47
1,400 0	1 50	257 01	1,399 2	-2,043 8	-23 5	-37 1	-32.3	0 68	680,475 90	565,292 69
1,600 0	1 00	277 23	1,599 1	-1,843.9	-23 8	-41 4	-36 5	0 33	680,475 53	565,288 40
1,800 0	0 75	261.44	1,799.1	-1,643 9	-23 8	-44 4	-39.5	0 17	680,475 55	565,285 38
2,000 0	0 75	255 55	1,999 1	-1,443.9	-24 3	-47 0	-41 9	0 04	680,475 03	565,282 82
2,200 0	0 50	241 76	2,199 1	-1,243 9	-25 1	-49 0	-43 8	0 15	680,474 29	565,280 78
2,400 0	0 25	156 97	2,399 1	-1,043.9	-25 9	-49 6	-44 2	0 27	680,473.48	565,280 18
2,600 0	0 25	200.18	2,599 1	-843 9	-26 7	-49 6	-44 0	0 09	680,472 67	565,280 20
2,800 0	0 50	123 29	2,799 1	-643 9	-27 6	-49 0	-43 3	0 25	680,471 78	565,280 78
3,000 0	0 25	68 46	2,999 1	-443 9	-27 9	-47.9	-42 1	0 21	680,471.46	565,281 92
3,200 0	0 25	197 67	3,199 1	-243 9	-28 1	-47 6	-41 8	0 23	680,471 20	565,282 19
3,400 0	0 25	218 78	3,399 1	-43 9	-28 9	-48 0	-42 1	0 05	680,470 45	565,281 78
3,600 0	0 50	228.99	3,599 1	156 1	-29 8	-48 9	-42 8	0 13	680,469 54	565,280 85
3,800 0	1 00	223 20	3,799 0	356 0	-31 7	-50 8	-44 3	0 25	680,467.69	565,279 00
4,000 0	0 50	283 64	3,999 0	556 0	-32 7	-52 8	-46 2	0 43	680,466 62	565,276 96



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1HY
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Site:	Puppy, BPP, State Com	MD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Well:	#1HY	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000:1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
4,200.0	0.25	270.75	4,199.0	756.0	-32.5	-54.1	-47.5	0.13	680,466.84	565,275.67	
4,400.0	0.75	296.97	4,399.0	956.0	-31.9	-55.7	-49.1	0.27	680,467.44	565,274.07	
4,600.0	1.00	285.17	4,599.0	1,156.0	-30.9	-58.6	-52.1	0.15	680,468.49	565,271.22	
4,800.0	1.00	273.25	4,799.0	1,356.0	-30.3	-62.0	-55.6	0.10	680,469.04	565,267.79	
5,000.0	0.75	260.46	4,998.9	1,555.9	-30.4	-65.0	-58.6	0.16	680,468.92	565,264.76	
5,200.0	0.75	335.63	5,198.9	1,755.9	-29.4	-66.9	-60.6	0.46	680,469.90	565,262.93	
5,400.0	0.50	347.74	5,398.9	1,955.9	-27.4	-67.6	-61.6	0.14	680,471.94	565,262.20	
5,600.0	1.00	1.95	5,598.9	2,155.9	-24.8	-67.7	-62.2	0.26	680,474.54	565,262.08	
5,640.0	1.76	58.63	5,638.9	2,195.9	-24.1	-67.2	-61.8	3.68	680,475.21	565,262.61	
5,672.0	3.43	73.75	5,670.9	2,227.9	-23.6	-65.8	-60.6	5.60	680,475.73	565,263.95	
KOP - 5672.0 'MD, 5670.9 'TVD, -23.6 'N, -65.8 'E											
5,704.0	6.51	82.45	5,702.7	2,259.7	-23.1	-63.1	-58.0	9.88	680,476.24	565,266.67	
5,735.0	10.11	86.32	5,733.4	2,290.4	-22.7	-58.7	-53.7	11.75	680,476.65	565,271.13	
5,767.0	13.72	89.83	5,764.7	2,321.7	-22.5	-52.1	-47.2	11.50	680,476.84	565,277.73	
5,799.0	17.24	92.73	5,795.5	2,352.5	-22.7	-43.5	-38.8	11.26	680,476.62	565,286.26	
5,830.0	20.84	93.61	5,824.8	2,381.8	-23.3	-33.4	-28.8	11.65	680,476.06	565,296.36	
5,864.0	24.71	95.72	5,856.2	2,413.2	-24.4	-20.3	-15.7	11.63	680,474.97	565,309.47	
5,899.0	29.11	97.39	5,887.4	2,444.4	-26.2	-4.6	0.1	12.75	680,473.14	565,325.20	
5,930.0	33.41	97.57	5,913.9	2,470.9	-28.3	11.4	16.2	13.87	680,471.05	565,341.15	
5,961.0	37.46	96.51	5,939.1	2,496.1	-30.5	29.2	34.2	13.21	680,468.85	565,358.98	
5,992.0	41.59	96.42	5,963.0	2,520.0	-32.7	48.8	53.8	13.32	680,466.63	565,378.58	
6,023.0	46.25	96.60	5,985.4	2,542.4	-35.2	70.1	75.3	15.04	680,464.19	565,399.94	
6,055.0	50.56	98.27	6,006.6	2,563.6	-38.3	93.9	99.2	14.02	680,461.09	565,423.66	
6,086.0	53.99	99.85	6,025.6	2,582.6	-42.1	118.1	123.7	11.78	680,457.22	565,447.87	
6,117.0	56.54	100.82	6,043.2	2,600.2	-46.7	143.1	149.2	8.62	680,452.64	565,472.93	
6,147.0	59.53	101.52	6,059.1	2,616.1	-51.6	168.1	174.6	10.16	680,447.71	565,497.89	
6,178.0	63.31	101.70	6,073.9	2,630.9	-57.1	194.8	201.8	12.20	680,442.23	565,524.55	



Pathfinder PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1HY
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Site:	Puppy "BPP" State Com	MD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Well:	#1HY	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000-1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)
6,210.0	67.36	101.52	6,087.3	2,644.3	-63.0	223.2	230.9	12.67	680,436.38	565,553.03
6,241.0	70.43	101.08	6,098.5	2,655.5	-68.6	251.6	259.8	9.99	680,430.72	565,581.39
6,272.0	72.46	101.08	6,108.3	2,665.3	-74.3	280.4	289.2	6.55	680,425.07	565,610.23
6,303.0	75.80	101.43	6,116.8	2,673.8	-80.1	309.7	319.0	10.83	680,419.25	565,639.47
6,335.0	80.11	101.43	6,123.5	2,680.5	-86.3	340.3	350.3	13.47	680,413.05	565,670.14
6,396.0	88.81	100.73	6,129.4	2,686.4	-98.0	399.9	410.9	14.31	680,401.40	565,729.66
6,427.0	89.34	100.73	6,129.9	2,686.9	-103.7	430.3	441.9	1.71	680,395.63	565,760.12
LP - 6427.0 'MD, 6129.9 'TVD, -103.7 'N, 430.3 'E										
6,521.0	89.60	100.64	6,130.7	2,687.7	-121.2	522.7	535.9	0.29	680,378.20	565,852.48
6,614.0	89.78	100.55	6,131.2	2,688.2	-138.2	614.1	628.9	0.22	680,361.10	565,943.90
6,708.0	89.60	99.85	6,131.7	2,688.7	-154.9	706.6	722.9	0.77	680,344.45	566,036.41
6,801.0	90.40	99.32	6,131.7	2,688.7	-170.4	798.3	815.9	1.03	680,328.97	566,128.11
6,894.0	89.96	98.80	6,131.4	2,688.4	-185.0	890.2	908.9	0.73	680,314.32	566,219.95
6,988.0	90.04	99.24	6,131.4	2,688.4	-199.8	983.0	1,002.9	0.48	680,299.59	566,312.78
7,082.0	89.52	99.06	6,131.8	2,688.8	-214.7	1,075.8	1,096.8	0.59	680,284.64	566,405.59
7,175.0	89.25	99.24	6,132.8	2,689.8	-229.5	1,167.6	1,189.8	0.35	680,269.85	566,497.40
7,268.0	89.52	99.24	6,133.8	2,690.8	-244.4	1,259.4	1,282.8	0.29	680,254.92	566,589.19
7,361.0	89.16	98.97	6,134.9	2,691.9	-259.1	1,351.2	1,375.8	0.48	680,240.20	566,681.01
7,454.0	88.81	98.88	6,136.5	2,693.5	-273.6	1,443.1	1,468.7	0.39	680,225.78	566,772.87
7,547.0	88.81	99.68	6,138.5	2,695.5	-288.6	1,534.8	1,561.7	0.86	680,210.78	566,864.63
7,640.0	88.99	99.59	6,140.2	2,697.2	-304.1	1,626.5	1,654.7	0.22	680,195.22	566,956.30
7,734.0	88.20	99.94	6,142.5	2,699.5	-320.1	1,719.1	1,748.6	0.92	680,179.28	567,048.91
7,827.0	89.25	99.85	6,144.6	2,701.6	-336.0	1,810.7	1,841.6	1.13	680,163.31	567,140.50
7,921.0	88.90	99.94	6,146.1	2,703.1	-352.2	1,903.3	1,935.6	0.38	680,147.15	567,233.09
8,015.0	88.55	100.29	6,148.2	2,705.2	-368.7	1,995.8	2,029.6	0.53	680,130.65	567,325.61
8,078.0	88.29	100.38	6,150.0	2,707.0	-380.0	2,057.8	2,092.5	0.44	680,119.35	567,387.56
8,148.0	88.81	100.38	6,151.7	2,708.7	-392.6	2,126.6	2,162.5	0.74	680,106.74	567,456.39



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1HY
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Site:	Puppy "BPP" State Com	MD Reference:	KB = 18 @ 3443.0usft (Silver Oak 10)
Well:	#1HY	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
8,242.0	90.48	100.47	6,152.3	2,709.3	-409.6	2,219.0	2,256.5	1.78	680,089.73	567,548.84	
8,335.0	90.75	100.73	6,151.3	2,708.3	-426.7	2,310.5	2,349.5	0.40	680,072.63	567,640.25	
8,429.0	92.15	100.73	6,148.9	2,705.9	-444.2	2,402.8	2,443.5	1.49	680,055.13	567,732.57	
8,522.0	92.24	100.73	6,145.4	2,702.4	-461.5	2,494.1	2,536.4	0.10	680,037.83	567,823.88	
8,617.0	92.24	100.64	6,141.7	2,698.7	-479.1	2,587.4	2,631.3	0.09	680,020.23	567,917.16	
8,710.0	92.33	100.38	6,138.0	2,695.0	-496.1	2,678.7	2,724.3	0.30	680,003.28	568,008.53	
8,804.0	92.07	100.38	6,134.3	2,691.3	-513.0	2,771.1	2,818.2	0.28	679,986.36	568,100.92	
8,896.0	91.28	100.12	6,131.7	2,688.7	-529.4	2,861.6	2,910.1	0.90	679,969.99	568,191.41	
8,990.0	90.66	99.94	6,130.1	2,687.1	-545.7	2,954.2	3,004.1	0.69	679,953.62	568,283.96	
9,083.0	91.19	99.76	6,128.6	2,685.6	-561.6	3,045.8	3,097.1	0.60	679,937.72	568,375.58	
9,176.0	91.28	99.68	6,126.6	2,683.6	-577.3	3,137.4	3,190.1	0.13	679,922.02	568,467.22	
9,269.0	91.63	99.68	6,124.2	2,681.2	-593.0	3,229.1	3,283.1	0.38	679,906.39	568,558.87	
9,362.0	91.63	99.76	6,121.5	2,678.5	-608.7	3,320.7	3,376.0	0.09	679,890.69	568,650.49	
9,460.0	91.80	100.16	6,118.6	2,675.6	-625.6	3,417.2	3,474.0	0.44	679,873.75	568,746.97	
9,553.0	90.31	100.15	6,116.9	2,673.9	-642.0	3,508.7	3,567.0	1.60	679,857.35	568,838.50	
9,647.0	88.99	100.09	6,117.5	2,674.5	-658.5	3,601.2	3,660.9	1.41	679,840.84	568,931.03	
9,739.0	88.04	99.77	6,119.9	2,676.9	-674.4	3,691.8	3,752.9	1.09	679,824.98	569,021.62	
9,833.0	88.29	100.22	6,122.9	2,679.9	-690.7	3,784.4	3,846.9	0.55	679,808.67	569,114.15	
9,926.0	88.55	100.18	6,125.4	2,682.4	-707.1	3,875.9	3,939.8	0.28	679,792.21	569,205.64	
10,019.0	88.55	100.64	6,127.8	2,684.8	-723.9	3,967.3	4,032.8	0.49	679,775.41	569,297.08	
10,112.0	88.02	100.71	6,130.6	2,687.6	-741.2	4,058.6	4,125.8	0.57	679,758.19	569,388.43	
10,205.0	88.20	100.77	6,133.6	2,690.6	-758.5	4,150.0	4,218.7	0.20	679,740.87	569,479.75	
10,270.0	88.29	101.05	6,135.6	2,692.6	-770.8	4,213.8	4,283.7	0.45	679,728.57	569,543.55	
10,350.0	88.29	101.05	6,138.0	2,695.0	-786.1	4,292.2	4,363.6	0.00	679,713.25	569,622.03	
BHL - 10350.0 'MD, 6138.0 'TVD, -786.1 'N, 4292.2 'E											



Pathfinder
PathfinderX & Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well #1HY
Project:	Eddy County (NAD 83)	TVD Reference:	KB = 18 @ 3443 0usft (Silver Oak 10)
Site:	Puppy "BPP" State Corn	MD Reference:	KB = 18 @ 3443 0usft (Silver Oak 10)
Well:	#1HY	North Reference:	Grid
Wellbore:	QH	Survey/Calculation Method:	Minimum Curvature
Design:	QH	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,672 0	5,670 9	-23 6	-65 8	KOP - 5672 0 'MD, 5670 9 'TVD, -23 6 'N, -65 8 'E
6,427 0	6,129 9	-103.7	430.3	LP - 6427 0 'MD, 6129 9 'TVD, -103 7 'N, 430.3 'E
10,350 0	6,138 0	-786 1	4,292 2	BHL - 10350 0 'MD, 6138 0 'TVD, -786 1 'N, 4292 2 'E

Checked By	Approved By:	Date:
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Project: Eddy County (NAD 83)
 Site: Puppy "BPP" State Com
 Well: #1HY
 Wellbore: OH
 Plan: Post Gyro Plan #6 (#1HY/OH)

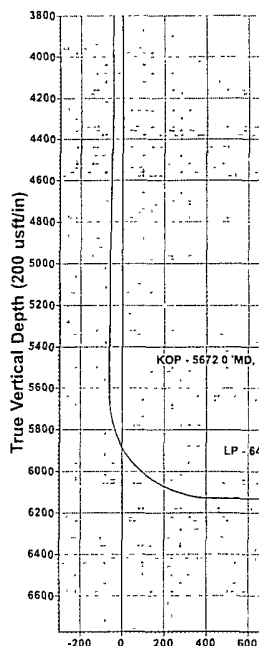
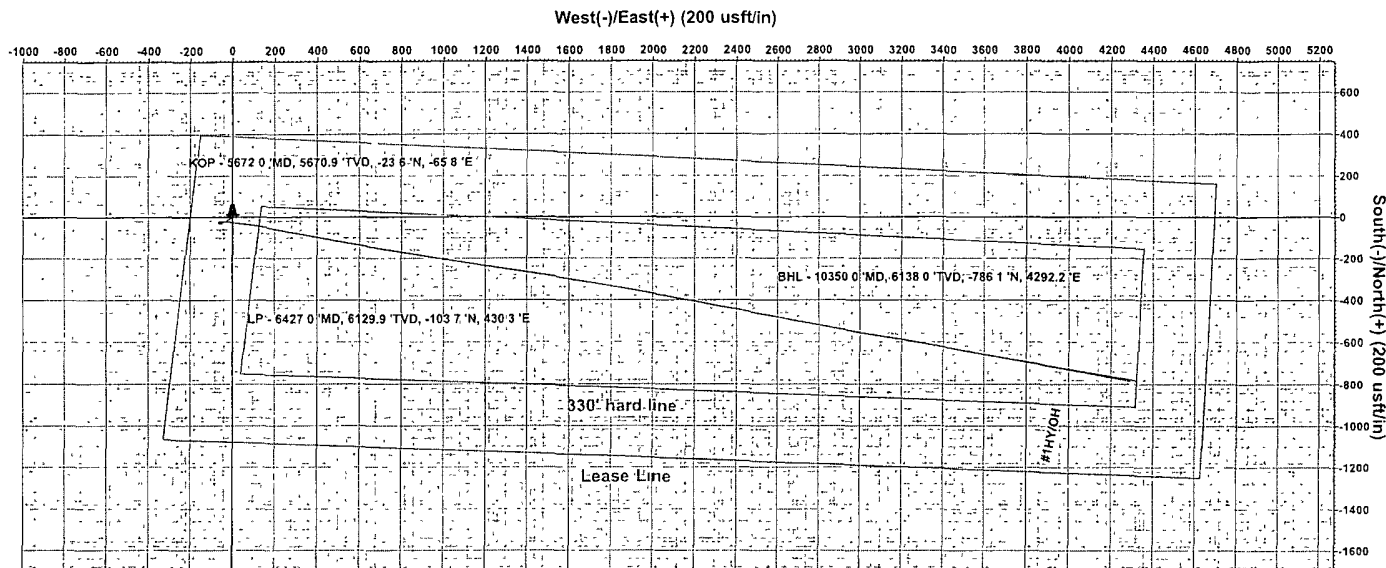
PATHFINDER®
 A Schlumberger Company

PROJECT DETAILS: Eddy County (NAD 83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level
 Local North: Grid



Azimuths to Grid North
 True North: -0.04°
 Magnetic North: 7.84°

Magnetic Field
 Strength: 48919.5nT
 Dip Angle: 60.68°
 Date: 12/6/2011
 Model: IGRF200510



WELL DETAILS #1HY					
Ground Elevation: 3425.0					
RKB Elevation: KB = 18 @ 3443 Dusst (Silver Oak 10)					
Rig Name: Silver Oak 10					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	680499.348	565329.791	32°52'14.483 N	104°15'18.678 W

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
9362.0	91.63	99.76	6121.5	-608.7	3320.7	0.00	0.00	3376.0	
9539.1	88.09	99.84	6122.0	-638.8	3495.2	2.00	178.72	3553.1	
10379.2	88.09	99.84	6150.0	-782.3	4322.5	0.00	0.00	4392.7	PBHL (#1HY)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (#1HY)	6150.0	-782.3	4322.5	679717.073	569652.275	Point

EOW

Vertical Section at 100.26° (200 usft/in)

Plan: Post Gyro Plan #6 (#1HY/OH)

Created By: Sam Biffle Date: 8/09, March 01 2012

Checked: _____ Date: _____

Pathfinder
 Version 10.0
 8/09, March 01 2012