

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

30-015-364a1

November 17, 2008


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

RE: Junior AWW State #4H
2130' FSL & 150' FEL
Sec. 17, T16S, R28E
Eddy County, New Mexico

Dear Sir,

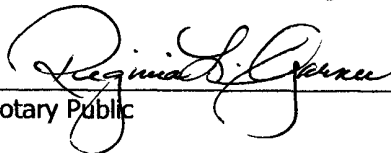
The attached is the Deviation Survey for the above captioned well.

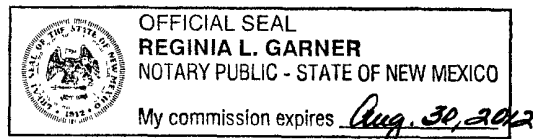
Very truly yours,


Leroy Curry
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 19th day of November, 2008.


Notary Public



Date	Depth	Dev.	Dir.	TVD
9/28/08	194.00	0.75		
9/28/08	281.00	0.50		
9/28/08	365.00	1.50		
10/1/08	615.00	0.25		
10/1/08	873.00	1.00		
10/1/08	1128.00	1.00		
10/1/08	1380.00	1.25		
10/2/08	1630.00	1.00		
10/2/08	1853.00	0.25		
10/4/08	2102.00	1.00		
10/4/08	2294.00	0.75		
10/4/08	2484.00	0.75		
10/5/08	2672.00	0.50		
10/5/08	2862.00	1.00		
10/5/08	3055.00	1.00		
10/5/08	3308.00	0.75		
10/6/08	3559.00	0.75		
10/6/08	3847.00	0.75		
10/7/08	4132.00	1.00		
10/7/08	4450.00	0.75		
10/7/08	4640.00	0.75		
10/8/08	5053.00	0.75		
10/9/08	5353.00	0.75		
10/9/08	5653.00	0.75		
10/10/08	5953.00	1.75		
10/10/08	6034.00	2.00		
10/10/08	6128.00	2.25		
10/11/08	6255.00	3.25		
10/11/08	6382.00	2.25		
10/12/08	6477.00	2.00		
10/16/08	5973.00	1.23	70.89	
10/16/08	6005.00	2.37	69.98	
10/20/08	5940.00	0.62	26.11	
10/20/08	5972.00	3.25	275.12	5971.69
10/20/08	6004.00	8.00	27.01	6003.52
10/20/08	6035.00	13.19	269.33	6033.98
10/20/08	6035.00	13.01	268.79	6033.99
10/21/08	6077.00	16.36	268.15	6064.94
10/21/08	6099.00	17.06	267.89	6095.59
10/21/08	6131.00	18.99	267.31	6126.02
10/21/08	6162.00	21.98	269.09	6155.06
10/21/08	6194.00	24.71	270.34	6184.43
10/21/08	6226.00	26.91	270.52	6213.24
10/21/08	6258.00	30.51	270.80	
10/22/08	6258.00	30.51	270.80	
10/22/08	6289.00	34.29	270.69	6267.45
10/22/08	6321.00	38.51	270.44	6293.00
10/22/08	6353.00	42.82	259.07	6317.46
10/22/08	6384.00	46.25	268.53	6339.56
10/22/08	6416.00	49.68	267.71	6360.98

Date	Depth	Dev.	Dir.	TVD
10/23/08	6448.00	53.11	267.15	6380.95
10/23/08	6479.00	56.54	266.27	6398.80
10/23/08	6511.00	59.88	265.20	6415.66
10/23/08	6543.00	63.40	264.83	6430.86
10/23/08	6574.00	67.09	265.15	6443.83
10/24/08	6603.00	70.70	266.81	6453.56
10/24/08	6635.00	74.39	267.68	6463.87
10/24/08	6667.00	78.70	267.83	6471.32
10/24/08	6699.00	82.66	268.62	6476.50
10/24/08	6730.00	86.79	269.48	6479.48
10/25/08	6762.00	818.90	270.74	6480.55
10/25/08	6799.00	88.29	269.41	6481.46
10/25/08	6897.00	89.16	267.52	6483.64
10/25/08	6989.00	89.43	267.38	6484.77
10/26/08	7084.00	90.31	267.50	6485.13
10/26/08	7179.00	90.66	267.82	6484.30
10/26/08	7274.00	90.66	267.92	6483.21
10/26/08	7370.00	91.10	267.57	6481.61
10/26/08	7465.00	91.19	267.05	6479.79
10/26/08	7560.00	91.45	267.93	6477.67
10/26/08	7655.00	90.48	269.28	6476.07
10/26/08	7750.00	90.13	269.24	6475.57
10/26/08	7845.00	89.78	270.11	6475.64
10/27/08	7940.00	89.69	270.60	6476.08
10/27/08	8035.00	89.34	270.61	6476.74
10/27/08	8131.00	89.30	270.29	6477.77
10/27/08	8226.00	89.78	270.03	6478.42
10/27/08	8321.00	89.43	270.45	6479.08
10/28/08	8416.00	89.25	270.12	6480.17
10/28/08	8511.00	88.55	270.71	6482.00
10/28/08	8607.00	89.16	270.19	6483.92
10/29/08	8701.00	89.78	268.76	6484.79
10/29/08	8796.00	90.31	267.87	6484.70
10/29/08	8891.00	91.19	267.83	6483.47
10/29/08	8987.00	91.10	268.15	6481.55
10/29/08	9082.00	90.66	268.28	6480.09
10/30/08	9114.00	90.57	268.30	6479.75
10/30/08	9177.00	91.54	267.25	6478.59
10/30/08	9272.00	91.28	267.01	6476.25
10/30/08	9462.00	91.01	267.06	6472.68
10/30/08	9557.00	90.48	266.37	647.40
10/30/08	9652.00	89.96	266.28	6471.28
10/30/08	9747.00	90.84	266.50	6470.41
10/31/08	9842.00	91.10	266.33	6468.80
10/31/08	9937.00	90.84	266.63	6467.20
11/1/08	10032.00	90.66	266.87	6465.98
11/1/08	10128.00	90.22	267.08	6465.22
11/1/08	10223.00	91.01	267.11	6464.20
11/3/08	10318.00	91.36	267.00	6462.23
11/4/08	10413.00	91.45	267.29	6459.90

Date	Depth	Dev.	Dir.	TVD
11/4/08	10508.00	91.36	267.13	6457.67
11/5/08	10604.00	90.84	267.30	6455.73
11/5/08	10699.00	90.75	267.72	6454.41
11/5/08	10794.00	90.84	267.91	6453.09
11/6/08	10889.00	91.19	268.35	6451.41
11/6/08	10921.00	91.28	268.37	6450.72



Yates Petroleum Corp.

Eddy County

Junior AWW State #4H

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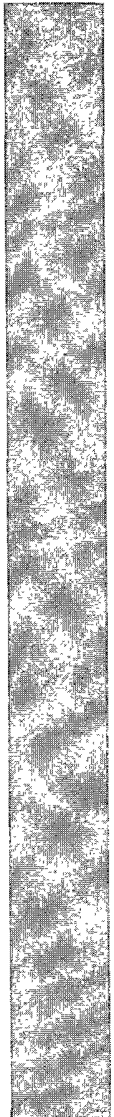
OH

Survey: MWD #1

Pathfinder X & Y Survey Report

06 November, 2008

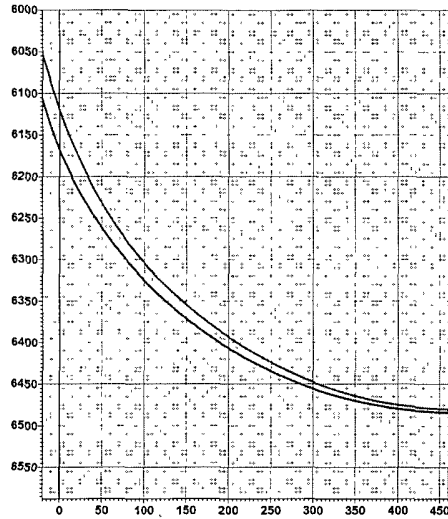
PATHFINDER
ENERGY SERVICES



Yates Petroleum Corporation



Azimuths to Grid North
 True North: -0.08°
 Magnetic North: -0.08°
 Magnetic Field
 Strength: 0.0snT
 Dip Angle: 0.00°
 Date: 07/11/2008
 Model: USER DEFINED



WELL DETAILS: Junior AWW State #4H

Ground Elevation: 3584.00
 RKB Elevation: Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
 Rig Name: Silver Oak #9 18' RKB

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	698881 801	585387 330	32° 55' 16 168 N	104° 11' 23.435 W	

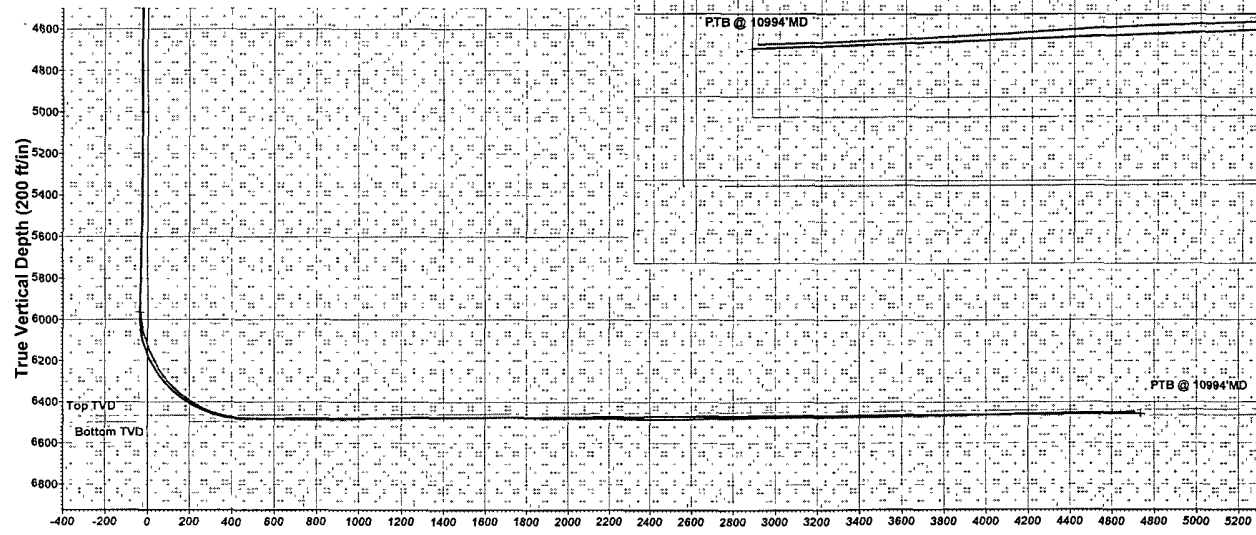
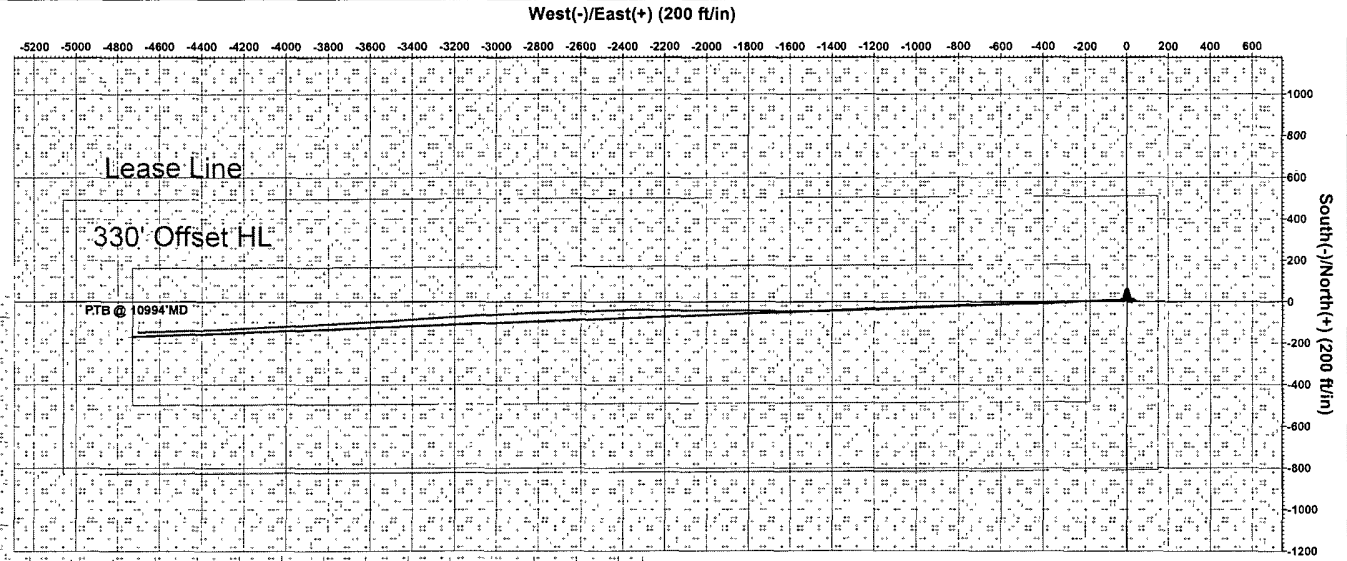
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP(JAWW#4H)	5966 00	7 28	35 59	698889 081	585402 920	Point
PBHL(JAWW#4H)	6457 02	-169 78	-4731 27	698712 023	580636 055	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	5966	32	188	66 95	5966 00	7 28	35 59	0 00	-35 83		
2	6774	45	90 36	267 80	6484 00	-6 05	-469 87	11 40	-159 14	469 78	
3	1039	09	90 36	267 80	6457 20	-169 76	-4731 28	0 00	0 00	4734 32	PBHL(JAWW#4H)

Project: Eddy County
 Site: Junior AWW State #4H
 Well: Junior AWW State #4H
 Wellbore: OH
 Plan: Plan #4 (Junior AWW State #4H/OH)



Vertical Section at 267.95° (200 ft/in)

PROJECT DETAILS: Eddy County
 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

Plan: Plan #4 (Junior AWW State #4H/OH)
 Created By: Nate Bingham Date: 7 42, November 06 2008
 Checked: _____ Date: _____



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: Yates Petroleum Corp.	Local Co-ordinate Reference: Well Junior AWW State #4H
Project: Eddy County	TVD Reference: Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Site: Junior AWW State #4H	MD Reference: Well2 @ 3582 00ft (Silver Oak #9 18' RKB)
Well: Junior AWW State #4H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: OH	Database: Midland DB

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

Site: Junior AWW State #4H			
Site Position:	Northing: 698,881.801 ft	Latitude: 32° 55' 16.168 N	
From: Map	Easting: 585,367.330 ft	Longitude: 104° 11' 23.435 W	
Position Uncertainty: 0.00 ft	Slot Radius: "	Grid Convergence: 0.08 °	

Well: Junior AWW State #4H			
Well Position +N/-S 0.00 ft	Northing: 698,881 801 ft	Latitude: 32° 55' 16.168 N	
+E/-W 0.00 ft	Easting: 585,367.330 ft	Longitude: 104° 11' 23.435 W	
Position Uncertainty 0.00 ft	Wellhead Elevation: ft	Ground Level: 3,564.00 ft	

Wellbore: OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	07/11/2008	0.00	0.00	0

Design: OH			
Audit Notes:			
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 267.95

Survey Program	Date: 11/06/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
6,697.00	6,697.00	Pilot Hole (OH)	
			Description



Pathfinder Energy Services
Pathfinder X & Y Survey Report



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Project:	Eddy County	TVD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Site:	Junior AWW State #4H	MD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Well:	Junior AWW State #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland DB

Survey												
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)		
5,900.00	1.67	67.54	5,899.71	2,317.71	6.49	33.70	-33.91	0.00	698,888.29	585,401.03		
5,940.00	0.62	26.11	5,939.70	2,357.70	6.91	34.33	-34.56	3.18	698,888.71	585,401.66		
5,972.00	3.25	275.12	5,971.69	2,389.69	7.14	33.51	-33.74	11.00	698,888.94	585,400.84		
6,004.00	8.00	270.08	6,003.52	2,421.52	7.23	30.37	-30.61	14.91	698,889.03	585,397.70		
6,035.00	13.01	268.79	6,033.99	2,451.99	7.16	24.72	-24.96	16.18	698,888.96	585,392.05		
6,067.00	16.36	268.15	6,064.94	2,482.94	6.93	16.62	-16.85	10.48	698,888.74	585,383.95		
6,099.00	17.06	267.89	6,095.59	2,513.59	6.62	7.42	-7.65	2.20	698,888.42	585,374.75		
6,131.00	18.99	267.31	6,126.02	2,544.02	6.20	-2.47	2.25	6.06	698,888.00	585,364.86		
6,162.00	21.98	269.09	6,155.06	2,573.06	5.87	-13.31	13.09	9.85	698,887.67	585,354.02		
6,194.00	24.71	270.34	6,184.43	2,602.43	5.81	-25.99	25.77	8.67	698,887.62	585,341.34		
6,226.00	26.91	270.52	6,213.24	2,631.24	5.92	-39.92	39.68	6.88	698,887.72	585,327.41		
6,258.00	30.60	270.93	6,241.29	2,659.29	6.12	-55.31	55.06	11.55	698,887.92	585,312.02		
6,289.00	34.29	270.69	6,267.45	2,685.45	6.35	-71.94	71.67	11.91	698,888.15	585,295.39		
6,321.00	38.51	270.44	6,293.20	2,711.20	6.54	-90.92	90.63	13.20	698,888.34	585,276.41		
6,353.00	42.82	269.07	6,317.46	2,735.46	6.44	-111.77	111.47	13.75	698,888.24	585,255.56		
6,384.00	46.25	268.53	6,339.56	2,757.56	5.98	-133.50	133.20	11.13	698,887.78	585,233.83		
6,416.00	49.68	267.71	6,360.98	2,778.98	5.19	-157.25	156.97	10.89	698,887.00	585,210.08		
6,448.00	53.11	267.15	6,380.95	2,798.95	4.07	-182.23	181.97	10.81	698,885.87	585,185.10		
6,479.00	56.54	266.27	6,398.80	2,816.80	2.61	-207.52	207.30	11.31	698,884.41	585,159.81		
6,511.00	59.88	265.20	6,415.66	2,833.66	0.58	-234.64	234.47	10.82	698,882.39	585,132.69		
6,543.00	63.40	264.83	6,430.86	2,848.86	-1.86	-262.69	262.59	11.05	698,879.94	585,104.64		
6,574.00	67.09	265.15	6,443.83	2,861.83	-4.32	-290.73	290.70	11.94	698,877.48	585,076.60		
6,603.00	70.70	266.81	6,454.28	2,872.28	-6.21	-317.71	317.73	13.54	698,875.59	585,049.62		
6,635.00	74.39	267.68	6,463.87	2,881.87	-7.68	-348.20	348.25	11.82	698,874.12	585,019.13		
6,667.00	78.70	267.83	6,471.32	2,889.32	-8.89	-379.29	379.37	13.48	698,872.91	584,988.04		
6,699.00	82.66	268.62	6,476.50	2,894.50	-9.87	-410.85	410.94	12.61	698,871.93	584,956.48		
6,730.00	86.79	269.48	6,479.35	2,897.35	-10.38	-441.70	441.79	13.61	698,871.42	584,925.63		



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well Junior AWW State #4H
Project:	Eddy County	TVD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Site:	Junior AWW State #4H	MD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Well:	Junior AWW State #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland_DB

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (%/100ft)	Northing (ft)	Easting (ft)	
6,762.00	88.90	270.74	6,480.55	2,898.55	-10.32	-473.68	473.74	7.68	698,871.48	584,893.65	
6,797.00	88.29	269.41	6,481.41	2,899.41	-10.27	-508.67	508.71	4.18	698,871.53	584,858.66	
6,897.00	89.16	267.52	6,483.63	2,901.63	-12.95	-608.60	608.67	2.08	698,868.85	584,758.73	
6,989.00	89.43	267.38	6,484.77	2,902.77	-17.05	-700.50	700.66	0.33	698,864.76	584,666.83	
7,084.00	90.31	267.50	6,484.98	2,902.98	-21.29	-795.41	795.66	0.93	698,860.51	584,571.92	
7,179.00	90.66	267.82	6,484.18	2,902.18	-25.17	-890.32	890.65	0.50	698,856.63	584,477.01	
7,274.00	90.66	267.92	6,483.08	2,901.08	-28.70	-985.25	985.65	0.11	698,853.10	584,382.08	
7,370.00	91.10	267.57	6,481.61	2,899.61	-32.48	-1,081.17	1,081.64	0.59	698,849.33	584,286.16	
7,465.00	91.19	267.05	6,479.71	2,897.71	-36.93	-1,176.04	1,176.61	0.56	698,844.87	584,191.29	
7,560.00	91.45	267.93	6,477.52	2,895.52	-41.09	-1,270.92	1,271.58	0.97	698,840.71	584,096.41	
7,655.00	90.48	269.28	6,475.92	2,893.92	-43.40	-1,365.88	1,366.56	1.75	698,838.40	584,001.45	
7,750.00	90.13	269.24	6,475.42	2,893.42	-44.63	-1,460.87	1,461.53	0.37	698,837.17	583,906.46	
7,845.00	89.78	270.11	6,475.49	2,893.49	-45.17	-1,555.87	1,556.49	0.99	698,836.63	583,811.46	
7,940.00	89.69	270.60	6,475.93	2,893.93	-44.58	-1,650.86	1,651.40	0.52	698,837.22	583,716.47	
8,035.00	89.34	270.61	6,476.73	2,894.73	-43.58	-1,745.86	1,746.30	0.37	698,838.22	583,621.47	
8,131.00	89.43	270.29	6,477.76	2,895.76	-42.82	-1,841.85	1,842.20	0.35	698,838.98	583,525.48	
8,226.00	89.78	270.03	6,478.42	2,896.42	-42.56	-1,936.84	1,937.13	0.46	698,839.24	583,430.49	
8,321.00	89.43	270.45	6,479.07	2,897.07	-42.16	-2,031.84	2,032.05	0.58	698,839.64	583,335.49	
8,416.00	89.25	270.38	6,480.17	2,898.17	-41.47	-2,126.83	2,126.95	0.20	698,840.33	583,240.50	
8,511.00	88.55	270.71	6,481.99	2,899.99	-40.57	-2,221.81	2,221.84	0.81	698,841.23	583,145.52	
8,607.00	89.16	270.19	6,483.91	2,901.91	-39.82	-2,317.79	2,317.73	0.83	698,841.99	583,049.54	
8,701.00	89.78	268.76	6,484.78	2,902.78	-40.68	-2,411.78	2,411.69	1.66	698,841.12	582,955.55	
8,796.00	90.31	267.87	6,484.71	2,902.71	-43.47	-2,506.73	2,506.68	1.09	698,838.33	582,860.60	
8,891.00	91.19	267.83	6,483.46	2,901.46	-47.03	-2,601.66	2,601.67	0.93	698,834.77	582,765.67	
8,987.00	91.10	268.15	6,481.54	2,899.54	-50.40	-2,697.58	2,697.65	0.35	698,831.40	582,669.75	
9,082.00	90.66	268.28	6,480.09	2,898.09	-53.36	-2,792.52	2,792.64	0.48	698,828.44	582,574.81	
9,114.00	90.57	268.30	6,479.74	2,897.74	-54.31	-2,824.50	2,824.64	0.29	698,827.49	582,542.83	



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp	Local Co-ordinate Reference:	Well Junior AWW State #4H
Project:	Eddy County	TVD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Site:	Junior AWW State #4H	MD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Well:	Junior AWW State #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland DB

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
9,177.00	91.54	267.25	6,478.58	2,896.58	-56.76	-2,887.44	2,887.63	2.27	698,825.04	582,479.89	
9,272.00	91.28	267.01	6,476.24	2,894.24	-61.51	-2,982.30	2,982.59	0.37	698,820.29	582,385.03	
9,367.00	91.01	266.66	6,474.35	2,892.35	-66.76	-3,077.13	3,077.55	0.47	698,815.04	582,290.20	
9,462.00	91.01	267.06	6,472.67	2,890.67	-71.96	-3,171.98	3,172.52	0.42	698,809.84	582,195.35	
9,557.00	90.48	266.37	6,471.44	2,889.44	-77.41	-3,266.81	3,267.49	0.92	698,804.40	582,100.52	
9,652.00	89.96	266.28	6,471.07	2,889.07	-83.49	-3,361.61	3,362.45	0.56	698,798.31	582,005.72	
9,747.00	90.84	266.50	6,470.41	2,888.41	-89.48	-3,456.42	3,457.41	0.95	698,792.33	581,910.91	
9,842.00	91.10	266.33	6,468.80	2,886.80	-95.42	-3,551.22	3,552.36	0.33	698,786.39	581,816.11	
9,937.00	90.84	266.63	6,467.19	2,885.19	-101.25	-3,646.03	3,647.32	0.42	698,780.55	581,721.30	
10,032.00	90.66	266.87	6,465.95	2,883.95	-106.63	-3,740.87	3,742.29	0.32	698,775.17	581,626.46	
10,128.00	90.22	267.08	6,465.21	2,883.21	-111.70	-3,836.73	3,838.27	0.51	698,770.10	581,530.60	
10,223.00	91.01	267.11	6,464.19	2,882.19	-116.51	-3,931.60	3,933.25	0.83	698,765.29	581,435.73	
10,318.00	91.36	267.00	6,462.23	2,880.23	-121.39	-4,026.46	4,028.22	0.39	698,760.41	581,340.87	
10,413.00	91.45	267.29	6,459.90	2,877.90	-126.12	-4,121.31	4,123.18	0.32	698,755.68	581,246.02	
10,508.00	91.36	267.13	6,457.57	2,875.57	-130.75	-4,216.17	4,218.15	0.19	698,751.06	581,151.16	
10,604.00	90.84	267.30	6,455.72	2,873.72	-135.41	-4,312.04	4,314.12	0.57	698,746.39	581,055.29	
10,699.00	90.75	267.72	6,454.41	2,872.41	-139.54	-4,406.94	4,409.11	0.45	698,742.27	580,960.39	
10,794.00	90.84	267.91	6,453.09	2,871.09	-143.16	-4,501.86	4,504.10	0.22	698,738.64	580,865.47	
10,889.00	91.19	268.35	6,451.41	2,869.41	-146.26	-4,596.79	4,599.08	0.59	698,735.54	580,770.54	
10,921.00	91.28	268.37	6,450.72	2,868.72	-147.17	-4,628.77	4,631.08	0.29	698,734.63	580,738.56	
10,994.00	91.28	268.37	6,449.09	2,867.09	-149.25	-4,701.73	4,704.06	0.00	698,732.55	580,665.60	

PTB @ 10994 MD



Pathfinder Energy Services
Pathfinder X & Y Survey Report



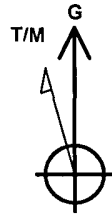
Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well Junior AWW State #4H
Project:	Eddy County	TVD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Site:	Junior AWW State #4H	MD Reference:	Well2 @ 3582.00ft (Silver Oak #9 18' RKB)
Well:	Junior AWW State #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland DB

Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
- Shape										
KOP(JAWW#4H)	0.00	0.00	5,966.00	7.28	35.59	698,889.081	585,402.920	32° 55' 16.240 N	104° 11' 23.018 W	
- survey misses by 1.80ft at 5966.26ft MD (5965.96 TVD, 7.11 N, 33.80 E)										
- Point										
PBHL(JAWW#4H)	0.00	0.00	6,457.02	-169.78	-4,731.27	698,712.023	580,636.055	32° 55' 14.549 N	104° 12' 18.946 W	
- survey misses by 36.84ft at 10994.00ft MD (6449.09 TVD, -149.25 N, -4701.73 E)										
- Point										

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S	+E/-W	
		(ft)	(ft)	
10,994.00	6,449.09	-149.25	-4,701.73	PTB @ 10994'MD

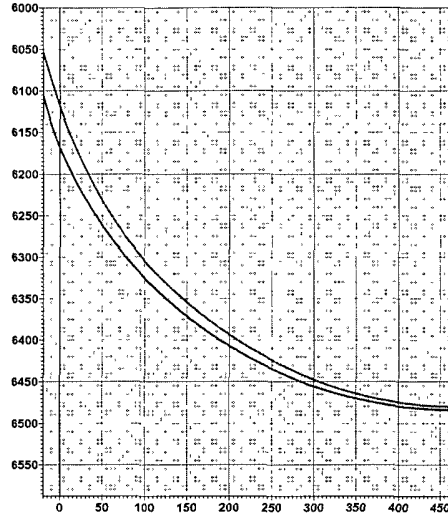
Checked By: _____ Approved By: _____ Date: _____

Yates Petroleum Corporation



Azimuths to Grid North
 True North: -0.08°
 Magnetic North: -0.08°

Magnetic Field
 Strength: 0.0snT
 Dip Angle: 0.00°
 Date: 07/11/2008
 Model: USER DEFINED



WELL DETAILS Junior AWW State #4H

Ground Elevation : 3564 00
 RKB Elevation, Well2 @ 3582 00ft (Silver Oak #9 18' RKB)
 Rig Name, Silver Oak #9 18' RKB

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	698881.801	585367.330	32° 55' 16 168 N	104° 11' 23 433 W	

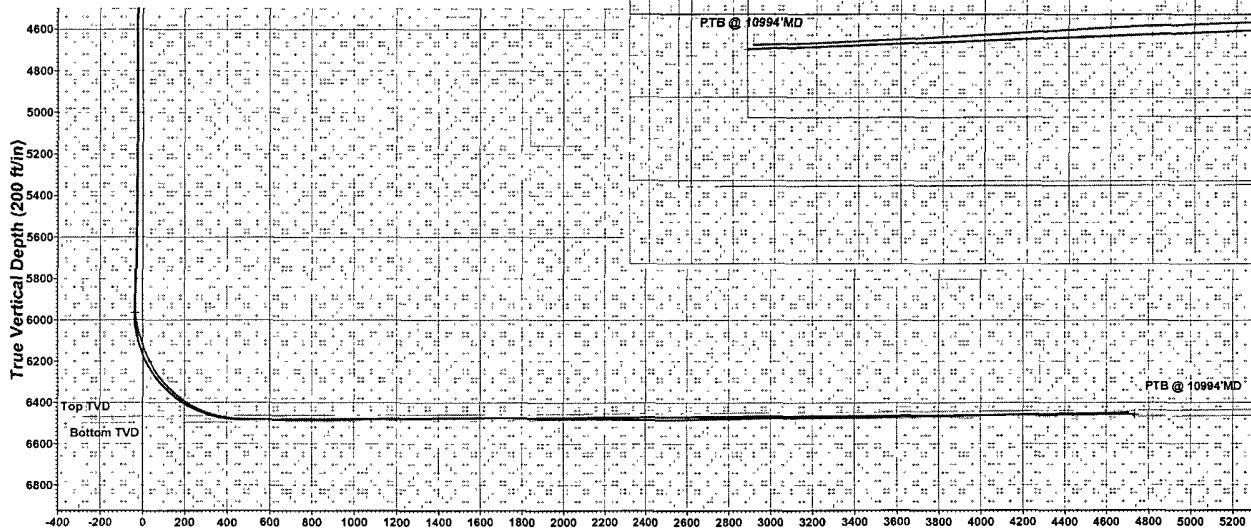
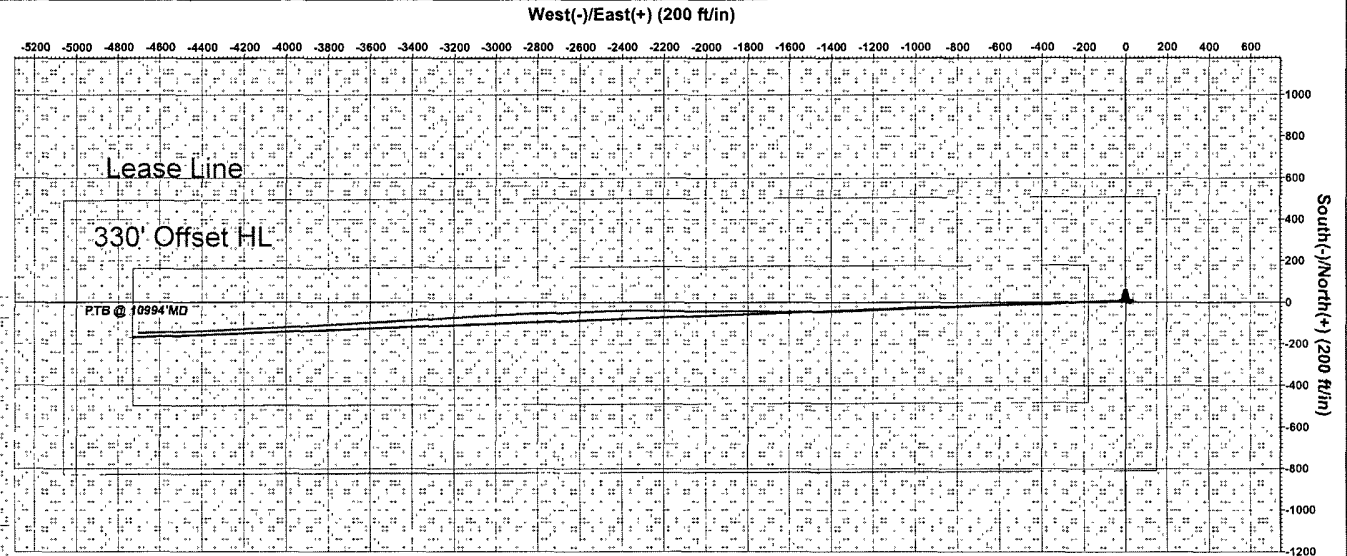
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
KOP(JAWW#4H)	5966 00	7 28	35 59	698889 081	585402 920	
PBHL(JAWW#4H)	6457 02	-169 78	-4731 27	698712 023	580636 055	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5966 32	1 88	66 95	5966 00	7 28	35 59	0 00	0 00	-35 83	
2	6774 45	90 36	267 80	6484 00	-6 05	-469 87	11 40	-159 14	469 78	
3	1039 09	90 36	267 80	6457 20	-169 76	-4731 28	0 00	0 00	4734 32	PBHL(JAWW#4H)

Project: Eddy County
Site: Junior AWW State #4H
Well: Junior AWW State #4H
Wellbore: OH
Plan: Plan #4 (Junior AWW State #4H/OH)



Vertical Section at 267.95° (200 ft/in)

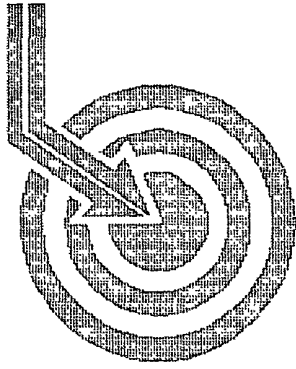
PROJECT DETAILS: Eddy County

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

Plan: Plan #4 (Junior AWW State #4H/OH)

Created By: Nate Bingham Date: 7.42, November 05 2008

Checked: _____ Date: _____



Scientific Drilling

YATES PETROLEUM

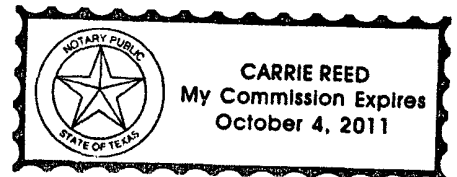
Field: Wildcat
Site: Eddy County, NM
Well: Junior AWW State #4H
Wellpath: VH - Job #32K10088807
Survey: 10/12/08

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Lu Hart*..... Company Representative

Notorized this date 3rd of October, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: YATES PETROLEUM	Date: 10/29/2008	Time: 17:01:19	Page: 1
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Junior AWW State #4H	Section (VS) Reference:	Well: (0.00N,0.00E,73.37Azi)	
Wellpath: VH - Job #32K10088807	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 10/12/08	Start Date: 10/12/2008	
Company: KSRG 0'-6600'	Engineer: Guebara/Williams w/GeoGyro	
Tool: Scientific Drilling Internatio Keeper;Keeper Gyro	Tied-to: From Surface	

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/V ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.37	85.37	100.00	0.32	0.03	0.32	0.37	0.32	85.37
200.00	1.12	104.70	199.99	1.47	-0.20	1.59	0.78	1.60	97.03
300.00	0.88	100.81	299.97	2.98	-0.59	3.29	0.25	3.34	100.14
400.00	0.84	90.42	399.96	4.37	-0.74	4.78	0.16	4.83	98.78
500.00	0.92	95.52	499.95	5.81	-0.82	6.31	0.11	6.36	97.41
600.00	0.98	98.16	599.94	7.33	-1.02	7.95	0.07	8.02	97.30
700.00	1.00	99.93	699.92	8.89	-1.29	9.66	0.04	9.75	97.61
800.00	0.96	100.39	799.91	10.41	-1.59	11.34	0.04	11.45	97.99
900.00	0.91	96.69	899.90	11.89	-1.84	12.96	0.08	13.09	98.06
1000.00	0.96	98.26	999.88	13.38	-2.05	14.57	0.06	14.72	98.00
1100.00	0.90	98.92	1099.87	14.85	-2.29	16.18	0.06	16.34	98.06
1200.00	0.80	102.34	1199.86	16.17	-2.56	17.64	0.11	17.82	98.26
1300.00	0.68	97.96	1299.85	17.32	-2.79	18.91	0.13	19.11	98.40
1400.00	0.63	106.84	1399.84	18.31	-3.03	20.02	0.11	20.25	98.62
1500.00	0.56	106.77	1499.84	19.18	-3.33	21.01	0.07	21.28	99.02
1600.00	0.14	58.93	1599.84	19.71	-3.41	21.59	0.48	21.85	98.98
1700.00	0.11	108.55	1699.84	19.90	-3.38	21.78	0.11	22.04	98.82
1800.00	0.19	157.58	1799.84	20.00	-3.56	21.94	0.14	22.22	99.23
1900.00	0.21	167.68	1899.83	20.00	-3.90	22.04	0.04	22.38	100.03
2000.00	0.23	148.68	1999.83	20.04	-4.25	22.18	0.08	22.59	100.84
2100.00	0.18	170.99	2099.83	20.07	-4.57	22.31	0.09	22.77	101.58
2200.00	0.26	173.20	2199.83	20.01	-4.95	22.36	0.08	22.90	102.49
2300.00	0.28	183.46	2299.83	19.89	-5.42	22.37	0.05	23.02	103.62
2400.00	0.27	167.05	2399.83	19.79	-5.90	22.41	0.08	23.18	104.74
2500.00	0.23	166.74	2499.83	19.76	-6.32	22.51	0.04	23.38	105.69
2600.00	0.15	153.56	2599.83	19.77	-6.63	22.62	0.09	23.57	106.35
2700.00	0.04	43.71	2699.83	19.83	-6.73	22.70	0.17	23.67	106.51
2800.00	0.09	226.43	2799.83	19.79	-6.75	22.67	0.13	23.65	106.60
2900.00	0.06	41.30	2899.83	19.76	-6.77	22.64	0.15	23.63	106.65
3000.00	0.19	48.91	2999.83	19.96	-6.62	22.80	0.13	23.74	106.19
3100.00	0.10	73.13	3099.83	20.19	-6.49	23.01	0.11	23.91	105.74
3200.00	0.20	67.49	3199.83	20.45	-6.39	23.26	0.10	24.12	105.38
3300.00	0.13	16.02	3299.83	20.69	-6.22	23.45	0.16	24.26	104.85
3400.00	0.11	5.88	3399.83	20.79	-6.01	23.49	0.03	24.25	104.36
3500.00	0.10	69.24	3499.83	20.91	-5.89	23.58	0.11	24.31	104.02
3600.00	0.23	359.93	3599.83	21.05	-5.66	23.66	0.22	24.33	103.44
3700.00	0.22	348.89	3699.83	21.13	-5.27	23.63	0.04	24.21	102.57
3800.00	0.17	330.12	3799.83	21.11	-4.95	23.51	0.08	24.03	101.89
3900.00	0.32	343.45	3899.82	21.08	-4.55	23.36	0.16	23.80	101.03
4000.00	0.28	345.24	3999.82	21.09	-4.05	23.22	0.04	23.57	99.89
4100.00	0.26	348.30	4099.82	21.12	-3.59	23.11	0.02	23.39	98.83
4200.00	0.40	342.70	4199.82	21.13	-3.04	22.96	0.14	23.16	97.53
4300.00	0.32	348.05	4299.82	21.15	-2.43	22.80	0.09	22.93	96.08
4400.00	0.31	341.90	4399.82	21.17	-1.90	22.66	0.04	22.74	94.79
4500.00	0.21	22.60	4499.82	21.28	-1.47	22.64	0.20	22.69	93.72
4600.00	0.28	6.34	4599.81	21.49	-1.06	22.74	0.10	22.77	92.67
4700.00	0.27	9.15	4699.81	21.68	-0.59	22.81	0.02	22.81	91.47
4800.00	0.33	19.33	4799.81	21.96	-0.08	22.94	0.08	22.94	90.20

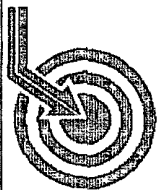


Scientific Drilling International Survey Report

Company: YATES PETROLEUM	Date: 10/29/2008	Time: 17:01:19	Page: 2
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Eddy County, NM; Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Junior AWW State #4H	Section (VS) Reference:	Well (0.00N,0.00E,73.37Azi)	
Wellpath: VH - Job #32K10088807	Survey Calculation Method:	Minimum Curvature	
		Db: Sybase	

Survey

MD ft	Incl deg	Azlm deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.42	5.44	4899.81	22.26	0.56	23.07	0.13	23.08	88.62
5000.00	0.46	14.70	4999.81	22.61	1.31	23.21	0.08	23.24	86.77
5100.00	0.40	28.69	5099.80	23.07	2.00	23.47	0.12	23.56	85.12
5200.00	0.35	42.19	5199.80	23.58	2.54	23.85	0.10	23.98	83.93
5300.00	0.52	68.99	5299.80	24.29	2.92	24.48	0.26	24.65	83.19
5400.00	0.69	74.68	5399.79	25.34	3.25	25.48	0.18	25.69	82.74
5500.00	0.83	77.95	5499.78	26.67	3.56	26.77	0.15	27.00	82.43
5600.00	0.81	71.78	5599.77	28.10	3.93	28.15	0.09	28.42	82.05
5700.00	0.98	64.47	5699.76	29.65	4.52	29.59	0.20	29.94	81.32
5800.00	1.28	63.39	5799.74	31.59	5.39	31.36	0.30	31.82	80.25
5900.00	1.67	67.62	5899.71	34.14	6.44	33.71	0.40	34.32	79.18
6000.00	1.98	66.78	5999.66	37.31	7.68	36.64	0.31	37.44	78.17
6100.00	2.20	69.04	6099.59	40.94	9.05	40.02	0.23	41.03	77.26
6200.00	2.32	72.23	6199.51	44.88	10.35	43.74	0.17	44.95	76.69
6300.00	2.31	64.23	6299.43	48.89	11.84	47.49	0.32	48.94	75.99
6400.00	2.18	62.49	6399.36	52.75	13.60	50.99	0.15	52.77	75.07
6500.00	2.24	62.56	6499.28	56.53	15.38	54.41	0.06	56.54	74.22
6600.00	2.21	59.42	6599.21	60.32	17.26	57.80	0.13	60.32	73.37



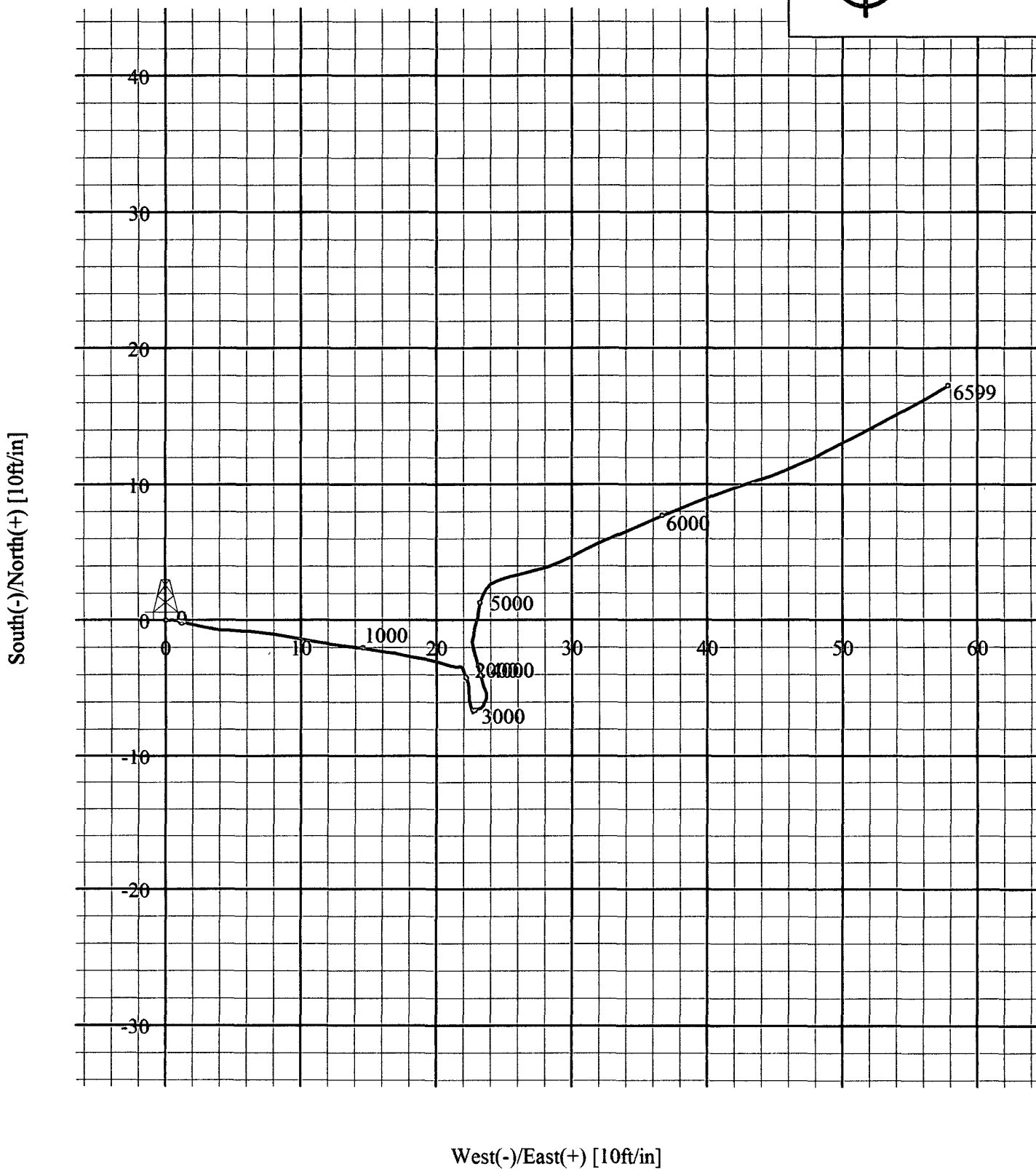
Scientific
Drilling

Field: Wildcat
Site: Eddy County, NM
Well: Junior AWW State #4H
Wellpath: VH - Job #32K10088807
Survey: 10/12/08

G/T/M

Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 10/29/2008
Model: Wmm_95





DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

JUNIOR AWW STATE #4H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. County Road 112 • Midland, TX • 79706
(432)681-6000

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JUSTIN FALLIN
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 10/20/08 TO 11/6/08
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

YATES PETROLEUM
JUNIOR AWW STATE #4H
EDDY COUNTY, NM
RIG: SILVER OAK #9
9. SURVEY CERTIFIED FROM: 5,940 TO 10,921 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4,704.12 FEET ON A BEARING OF 268.18 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10,994 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 10/16/2008
Date Completed: 11/06/2008

YATES PETROLEUM
JUNIOR AWW STATE #4H
EDDY COUNTY, NEW MEXICO
Rig: SILVER OAK 9
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: J. FALLIN

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.55.16.1684 N LON: 104.11.23.4353 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 585367.3300 Y: 698881.8010
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.15° EAST TO GRID
Vertical Section Plane: 267.94
Survey Vert. Reference: 20.00' Rotary Table To Ground
Altitude: 3582.00' Ground To MSL

Measured Depth	10994.00	(feet)
Inclination	91.28	(deg)
Azimuth	268.37	(deg)
True Vertical Depth	6449.09	(feet)
Vertical Section	4704.08	(feet)
Survey X cord	580665.58	(feet)
Survey Y cord	698732.51	(feet)
Survey Lat	32.92076418 N	(deg)
Survey Lon	104.20516637 W	(deg)
Rectangular Corr. N/S	149.29 S	(feet)
Rectangular Corr. E/W	4701.75 W	(feet)
Closure Distance	4704.12	(feet)
Direction of Closure	268.18	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
 JUNIOR AWW STATE #4H
 EDDY COUNTY, NEW MEXICO
 Rig:SILVER OAK 9
 PathFinder Office Supervisor: FRANCISCO SINISTERRA
 PathFinder Field Engineers: J. FALLIN

Survey Horiz. Reference:WELLHEAD
 Ref Coordinates: LAT:32.55.16.1684 N LON:104.11.23.4353 W
 Reference:NAD83 new mexico east Transverse Mercator
 Ref GRID Coord: X: 585367.3300 Y: 698881.8010
 North Aligned To:GRID NORTH
 Total Magnetic Correction: 8.15° EAST TO GRID
 Vertical Section Plane: 267.94
 Survey Vert. Reference: 20.00' Rotary Table To Ground
 Altitude:3582.00' Ground To MSL

Survey Calculations by RX5 V5.11i using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIE-IN PROVIDED BY SCINTIFIC GYRO @ 5900'MD.										
5900.00	1.67	67.54	5899.71	0.00	-33.91	6.49 N	33.70 E	34.32@	79.10	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
5940.00	0.62	26.11	5939.70	40.00	-34.56	6.91 N	34.33 E	35.02@	78.63	3.18
5972.00	3.25	275.12	5971.69	32.00	-33.74	7.14 N	33.51 E	34.26@	77.96	11.00
6004.00	8.00	270.08	6003.52	32.00	-30.61	7.23 N	30.37 E	31.22@	76.62	14.91
6035.00	13.01	268.79	6033.99	31.00	-24.97	7.16 N	24.72 E	25.74@	73.86	16.18
6067.00	16.36	268.15	6064.94	32.00	-16.86	6.94 N	16.62 E	18.01@	67.35	10.48
6099.00	17.06	267.89	6095.59	32.00	-7.65	6.62 N	7.42 E	9.94@	48.28	2.20
6131.00	18.99	267.31	6126.02	32.00	2.25	6.20 N	2.47 W	6.67@	338.27	6.06
6162.00	21.98	269.09	6155.06	31.00	13.09	5.87 N	13.31 W	14.55@	293.80	9.85
6194.00	24.71	270.34	6184.43	32.00	25.76	5.82 N	25.99 W	26.63@	282.61	8.67
6226.00	26.91	270.52	6213.24	32.00	39.68	5.92 N	39.92 W	40.36@	278.44	6.88
6258.00	30.60	270.93	6241.29	32.00	55.06	6.12 N	55.31 W	55.65@	276.31	11.55
6289.00	34.29	270.69	6267.45	31.00	71.66	6.35 N	71.94 W	72.22@	275.05	11.91
6321.00	38.51	270.44	6293.20	32.00	90.63	6.54 N	90.92 W	91.16@	274.11	13.20
6353.00	42.82	269.07	6317.46	32.00	111.47	6.44 N	111.77 W	111.95@	273.30	13.75
6384.00	46.25	268.53	6339.56	31.00	133.20	5.98 N	133.50 W	133.64@	272.56	11.13
6416.00	49.68	267.71	6360.98	32.00	156.96	5.19 N	157.25 W	157.34@	271.89	10.89
6448.00	53.11	267.15	6380.95	32.00	181.97	4.07 N	182.23 W	182.28@	271.28	10.80
6479.00	56.54	266.27	6398.80	31.00	207.30	2.61 N	207.52 W	207.54@	270.72	11.30
6511.00	59.88	265.20	6415.66	32.00	234.47	0.59 N	234.64 W	234.64@	270.14	10.82
6543.00	63.40	264.83	6430.86	32.00	262.59	1.86 S	262.69 W	262.70@	269.59	11.05
6574.00	67.09	265.15	6443.83	31.00	290.70	4.32 S	290.73 W	290.76@	269.15	11.94
6603.00	70.70	266.81	6454.28	29.00	317.73	6.21 S	317.71 W	317.77@	268.88	13.54

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
 JUNIOR AWW STATE #4H
 EDDY COUNTY, NEW MEXICO
 RIG:SILVER OAK 9

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)	Dist (ft)	Dir (deg)	
6635.00	74.39	267.68	6463.87	32.00	348.25	7.68 S	348.20 W	348.28@	268.74	11.82
6667.00	78.70	267.83	6471.32	32.00	379.36	8.89 S	379.29 W	379.39@	268.66	13.48
6699.00	82.66	268.62	6476.50	32.00	410.93	9.87 S	410.85 W	410.96@	268.62	12.61
6730.00	86.79	269.48	6479.35	31.00	441.79	10.38 S	441.70 W	441.82@	268.65	13.61
6762.00	88.90	270.74	6480.55	32.00	473.74	10.32 S	473.68 W	473.79@	268.75	7.68
6799.00	88.29	269.41	6481.46	37.00	510.70	10.27 S	510.67 W	510.77@	268.85	3.95
6897.00	89.16	267.52	6483.64	98.00	608.67	12.90 S	608.60 W	608.74@	268.79	2.12
6989.00	89.43	267.38	6484.77	92.00	700.66	16.99 S	700.50 W	700.71@	268.61	0.33
7084.00	90.31	267.50	6484.99	95.00	795.66	21.23 S	795.41 W	795.69@	268.47	0.93
7179.00	90.66	267.82	6484.18	95.00	890.65	25.11 S	890.32 W	890.68@	268.38	0.50
7274.00	90.66	267.92	6483.09	95.00	985.64	28.64 S	985.25 W	985.67@	268.33	0.10
7370.00	91.10	267.57	6481.61	96.00	1081.63	32.42 S	1081.17 W	1081.65@	268.28	0.59
7465.00	91.19	267.05	6479.72	95.00	1176.61	36.88 S	1176.04 W	1176.62@	268.20	0.56
7560.00	91.45	267.93	6477.53	95.00	1271.58	41.04 S	1270.92 W	1271.59@	268.15	0.97
7655.00	90.48	269.28	6475.93	95.00	1366.55	43.35 S	1365.88 W	1366.57@	268.18	1.75
7750.00	90.13	269.24	6475.42	95.00	1461.53	44.57 S	1460.87 W	1461.55@	268.25	0.37
7845.00	89.78	270.11	6475.50	95.00	1556.48	45.11 S	1555.87 W	1556.52@	268.34	0.99
7940.00	89.69	270.60	6475.94	95.00	1651.40	44.52 S	1650.86 W	1651.46@	268.46	0.52
8035.00	89.34	270.61	6476.74	95.00	1746.29	43.52 S	1745.86 W	1746.40@	268.57	0.37
8131.00	89.43	270.29	6477.77	96.00	1842.19	42.77 S	1841.85 W	1842.34@	268.67	0.35
8226.00	89.78	270.03	6478.42	95.00	1937.12	42.50 S	1936.84 W	1937.31@	268.74	0.46
8321.00	89.43	270.45	6479.08	95.00	2032.04	42.10 S	2031.84 W	2032.28@	268.81	0.58
8416.00	89.25	270.12	6480.17	95.00	2126.95	41.63 S	2126.83 W	2127.24@	268.88	0.40
8511.00	88.55	270.71	6482.00	95.00	2221.85	40.94 S	2221.81 W	2222.19@	268.94	0.96
8607.00	89.16	270.19	6483.92	96.00	2317.74	40.19 S	2317.79 W	2318.14@	269.01	0.83
8701.00	89.78	268.76	6484.79	94.00	2411.69	41.05 S	2411.78 W	2412.13@	269.02	1.66
8796.00	90.31	267.87	6484.71	95.00	2506.69	43.85 S	2506.74 W	2507.12@	269.00	1.09
8891.00	91.19	267.83	6483.47	95.00	2601.68	47.41 S	2601.66 W	2602.09@	268.96	0.93
8987.00	91.10	268.15	6481.55	96.00	2697.66	50.78 S	2697.58 W	2698.06@	268.92	0.35
9082.00	90.66	268.28	6480.09	95.00	2792.65	53.73 S	2792.52 W	2793.04@	268.90	0.48

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM
 JUNIOR AWW STATE #4H
 EDDY COUNTY, NEW MEXICO
 RIG:SILVER OAK 9

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)	Dist (ft)	Dir (deg)	
9114.00	90.57	268.30	6479.75	32.00	2824.65	54.69 S	2824.51 W	2825.04@	268.89	0.29
9177.00	91.54	267.25	6478.59	63.00	2887.64	57.13 S	2887.45 W	2888.01@	268.87	2.27
9272.00	91.28	267.01	6476.25	95.00	2982.60	61.89 S	2982.30 W	2982.94@	268.81	0.37
9367.00	91.01	266.86	6474.35	95.00	3077.56	66.97 S	3077.14 W	3077.87@	268.75	0.32
9462.00	91.01	267.06	6472.68	95.00	3172.53	72.01 S	3172.00 W	3172.81@	268.70	0.21
9557.00	90.48	266.37	6471.44	95.00	3267.50	77.45 S	3266.83 W	3267.75@	268.64	0.92
9652.00	89.96	266.28	6471.08	95.00	3362.47	83.54 S	3361.64 W	3362.67@	268.58	0.56
9747.00	90.84	266.50	6470.41	95.00	3457.43	89.52 S	3456.44 W	3457.60@	268.52	0.96
9842.00	91.10	266.33	6468.80	95.00	3552.38	95.46 S	3551.24 W	3552.53@	268.46	0.33
9937.00	90.84	266.63	6467.20	95.00	3647.34	101.29 S	3646.05 W	3647.46@	268.41	0.42
10032.00	90.66	266.87	6465.95	95.00	3742.31	106.68 S	3740.89 W	3742.41@	268.37	0.32
10128.00	90.22	267.08	6465.22	96.00	3838.29	111.74 S	3836.75 W	3838.38@	268.33	0.51
10223.00	91.01	267.11	6464.20	95.00	3933.27	116.56 S	3931.62 W	3933.35@	268.30	0.83
10318.00	91.36	267.00	6462.23	95.00	4028.24	121.44 S	4026.48 W	4028.31@	268.27	0.39
10413.00	91.45	267.29	6459.90	95.00	4123.20	126.17 S	4121.33 W	4123.26@	268.25	0.32
10508.00	91.36	267.13	6457.57	95.00	4218.17	130.79 S	4216.19 W	4218.22@	268.22	0.19
10604.00	90.84	267.30	6455.73	96.00	4314.14	135.45 S	4312.06 W	4314.19@	268.20	0.57
10699.00	90.75	267.72	6454.41	95.00	4409.13	139.58 S	4406.96 W	4409.17@	268.19	0.45
10794.00	90.84	267.91	6453.09	95.00	4504.12	143.20 S	4501.88 W	4504.16@	268.18	0.22
10889.00	91.19	268.35	6451.41	95.00	4599.10	146.30 S	4596.82 W	4599.14@	268.18	0.59
10921.00	91.28	268.37	6450.72	32.00	4631.10	147.22 S	4628.80 W	4631.14@	268.18	0.29
STRAIGHT-LINE PROJECTION TO BIT @ 10994' MD.										
10994.00	91.28	268.37	6449.09	73.00	4704.08	149.29 S	4701.75 W	4704.12@	268.18	0.00

PATHFINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	YATES PETROLEUM		
LEASE / WELL No.:	JUNIOR AWW STATE	#4H	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY	N.M.	U.S.A.
RIG:	SILVER OAK # 9		
API WELL No:	30-015-36421		
JOB No:	101007953-WT-WT		
P.O. / AFE No.	103-2392 / 08-233-0		
DIRECTIONAL COMPANY:	PATHFINDER ENERGY		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):					
On Wall Plat:	8.15	LWD Calculated:	8.154778	Agreed Upon:	8.154778
X =	585367.330000	Feet	Y =	698881.801000	Feet
SITE LATITUDE:	32.921158 N	SITE LONGITUDE:	104.189843 W		
GRID SYSTEM:	TRUE <input type="checkbox"/>	UTM <input checked="" type="checkbox"/>	LAMBERT <input type="checkbox"/>	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	267.94				
KELLY BUSHING ELEVATION:	20'				
ALTITUDE:	3582	Feet	WATER DEPTH:	0	Feet

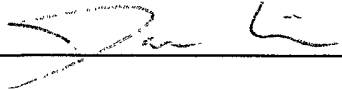
TIE-IN SURVEY

MEASURED DEPTH:	5900			
DRIFT ANGLE:	1.67			
DRIFT DIRECTION:	67.54			
TRUE VERTICAL DEPTH:	5899.71			
VERTICAL SECTION:	-33.91			
RECTANGULAR COORDINATE (N / S):	6.49			
RECTANGULAR COORDINATE (E / W):	33.7			
CLOSURE DISTANCE / DIRECTION:				
SURVEY CALCULATION METHOD:	AA <input type="checkbox"/>	MC <input checked="" type="checkbox"/>	RC <input type="checkbox"/>	BT <input type="checkbox"/>
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING			
COPY OF TIE-IN SURVEY REPORT	<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO	

WELL PLAN

KICKOFF DEPTH:	TOTAL DEPTH:
KICKOFF ANGLE:	MAX ANGLE:

PES Engineers:



**Signature of both field engineers required if applicable

Directional Driller:

DATE:

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

YATES PETROLEUM
JUNIOR AWW STATE #4H
EDDY COUNTY, NEW MEXICO
Rig:SILVER OAK 9

Thu Oct 09 16:38:41 2008

Coordinates

Latitude: 32.921158 N (32 deg. 55 min. 16.1684 sec.)
Longitude: 104.189843 W (-104 deg. 11 min. 23.4353 sec.)
Elevation: 3582.00 feet.
Calculation Date: Oct/09/2008

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.8031 degrees
Total Magnetic Field: 0.49260 gauss
Magnetic Declination: 8.232763 degrees
Horizontal Intensity: 0.240295 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.232763 Degr.

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 585367.3300 feet
Y: 698881.8010 feet
True to Grid: (convergence) -0.077985 degrees
Magnetic to Grid: 8.154778 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 8.154778 Degr.

Yates Petroleum Corp.

Eddy County, NM (NAD83 NME)

Junior AWW State #4H

Junior AWW State #4H

OH

Design: Actual

Standard Survey Report

, 13 October, 2008



Scientific Drilling
Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Junior AWW State #4H
Well: Junior AWW State #4H
Wellbore: OH
Design: Actual

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Junior AWW State #4H
 WELL @ 3594.00ft (Original Well Elev)
 WELL @ 3594.00ft (Original Well Elev)
 Grid
 Minimum Curvature
 EDM 2003.16 Single User Db

Project Eddy County, NM (NAD83 NME)
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Junior AWW State #4H

Site Position:		Northing:	698,881.801 ft	Latitude:	32° 55' 16.168 N
From:	Map	Easting:	585,367.330 ft	Longitude:	104° 11' 23.435 W
Position Uncertainty:		0.00 ft	Slot Radius: "	Grid Convergence:	0.08 °

Well Junior AWW State #4H
 Well Position +N/-S 0.00 ft Northing: 698,881.801 ft Latitude: 32° 55' 16.168 N
 +E/-W 0.00 ft Easting: 585,367.330 ft Longitude: 104° 11' 23.435 W
 Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 0.00 ft

Wellbore OH

Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
 IGRF200510 10/13/2008 8.23 60.80 49,259

Design Actual

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section: Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
 0.00 0.00 0.00 267.94

Survey Program Date 10/13/2008

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	6,600.00	GYRO (OH)	Keeper	Standard Wireline Keeper ver 1.0.2

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.37	85.29	100.00	0.03	0.32	-0.32	0.37	0.37
200.00	1.12	104.62	199.99	-0.19	1.59	-1.58	0.78	0.75
300.00	0.88	100.73	299.97	-0.58	3.29	-3.27	0.25	-0.24
400.00	0.84	90.34	399.96	-0.73	4.78	-4.75	0.16	-0.04
500.00	0.92	95.44	499.95	-0.81	6.31	-6.28	0.11	0.08
600.00	0.98	98.08	599.94	-1.01	7.95	-7.91	0.07	0.06
700.00	1.00	99.85	699.92	-1.28	9.66	-9.61	0.04	0.02
800.00	0.96	100.31	799.91	-1.58	11.35	-11.28	0.04	-0.04
900.00	0.91	96.61	899.90	-1.82	12.96	-12.88	0.08	-0.05
1,000.00	0.96	98.18	999.88	-2.03	14.58	-14.49	0.06	0.05
1,100.00	0.90	98.84	1,099.87	-2.27	16.18	-16.09	0.06	-0.06
1,200.00	0.80	102.26	1,199.86	-2.54	17.64	-17.54	0.11	-0.10

Survey

Measured Depth	Inclination	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate
----------------	-------------	---------	---------------------	-------	-------	------------------	-------------	------------

(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)
1,300.00	0.68	97.88	1,299.85	-2.77	18.91	-18.80	0.13
1,400.00	0.63	106.76	1,399.84	-3.01	20.02	-19.90	0.11
1,500.00	0.56	106.69	1,499.84	-3.31	21.02	-20.89	0.07
1,600.00	0.14	58.85	1,599.84	-3.38	21.59	-21.46	0.48
1,700.00	0.11	108.47	1,699.84	-3.35	21.79	-21.65	0.11
1,800.00	0.19	157.50	1,799.84	-3.53	21.94	-21.80	0.14
1,900.00	0.21	167.60	1,899.83	-3.87	22.04	-21.89	0.04
2,000.00	0.23	148.60	1,999.83	-4.22	22.19	-22.02	0.08
2,100.00	0.18	170.91	2,099.83	-4.54	22.32	-22.14	0.09
2,200.00	0.26	173.12	2,199.83	-4.92	22.37	-22.18	0.08
2,300.00	0.28	183.38	2,299.83	-5.39	22.38	-22.17	0.05
2,400.00	0.27	166.97	2,399.83	-5.87	22.42	-22.20	0.08
2,500.00	0.23	166.66	2,499.83	-6.29	22.52	-22.28	0.04
2,600.00	0.15	153.48	2,599.83	-6.60	22.62	-22.37	0.09
2,700.00	0.04	43.63	2,699.83	-6.70	22.71	-22.45	0.17
2,800.00	0.09	226.35	2,799.83	-6.72	22.67	-22.42	0.13
2,900.00	0.06	41.22	2,899.83	-6.74	22.65	-22.40	0.15
3,000.00	0.19	48.83	2,999.83	-6.59	22.81	-22.56	0.13
3,100.00	0.10	73.05	3,099.83	-6.46	23.02	-22.77	0.11
3,200.00	0.20	67.41	3,199.83	-6.36	23.26	-23.02	0.10
3,300.00	0.13	15.94	3,299.83	-6.19	23.46	-23.22	0.16
3,400.00	0.11	5.80	3,399.83	-5.98	23.50	-23.27	0.03
3,500.00	0.10	69.16	3,499.83	-5.86	23.59	-23.36	0.11
3,600.00	0.23	359.85	3,599.83	-5.62	23.67	-23.45	0.22
3,700.00	0.22	348.81	3,699.83	-5.24	23.63	-23.43	0.04
3,800.00	0.17	330.04	3,799.83	-4.92	23.52	-23.33	0.08
3,900.00	0.32	343.37	3,899.82	-4.52	23.37	-23.19	0.16
4,000.00	0.28	345.16	3,999.82	-4.02	23.22	-23.07	0.04
4,100.00	0.26	348.22	4,099.82	-3.56	23.12	-22.97	0.02
4,200.00	0.40	342.62	4,199.82	-3.00	22.97	-22.84	0.14
4,300.00	0.32	347.97	4,299.82	-2.40	22.80	-22.70	0.09
4,400.00	0.31	341.82	4,399.82	-1.87	22.66	-22.58	0.04
4,500.00	0.21	22.52	4,499.82	-1.44	22.65	-22.58	0.20
4,600.00	0.28	6.26	4,599.81	-1.03	22.74	-22.69	0.10
4,700.00	0.27	9.07	4,699.81	-0.55	22.81	-22.77	0.02
4,800.00	0.33	19.25	4,799.81	-0.05	22.94	-22.92	0.08
4,900.00	0.42	5.36	4,899.81	0.59	23.07	-23.07	0.13
5,000.00	0.46	14.62	4,999.81	1.34	23.20	-23.24	0.08
5,100.00	0.40	28.61	5,099.80	2.04	23.47	-23.53	0.12
5,200.00	0.35	42.11	5,199.80	2.57	23.84	-23.92	0.10
5,300.00	0.52	68.91	5,299.80	2.96	24.47	-24.56	0.26
5,400.00	0.69	74.60	5,399.79	3.28	25.48	-25.58	0.18
5,500.00	0.83	77.87	5,499.78	3.59	26.76	-26.88	0.15
5,600.00	0.81	71.70	5,599.77	3.97	28.14	-28.27	0.09
5,700.00	0.98	64.39	5,699.76	4.56	29.59	-29.73	0.20
5,800.00	1.28	63.31	5,799.74	5.43	31.36	-31.53	0.30
5,900.00	1.67	67.54	5,899.71	6.49	33.70	-33.91	0.40
6,000.00	1.98	66.70	5,999.66	7.73	36.63	-36.89	0.31
6,100.00	2.20	68.96	6,099.59	9.10	40.01	-40.31	0.23
6,200.00	2.32	72.15	6,199.51	10.41	43.73	-44.08	0.17
6,300.00	2.31	64.15	6,299.43	11.91	47.47	-47.87	0.32

6,400.00	2.18	62.41	6,399.36	13.67	50.97	-51.43	0.15	-0.13
6,500.00	2.24	62.48	6,499.28	15.45	54.39	-54.91	0.06	0.06
6,600.00	2.21	59.34	6,599.21	17.34	57.78	-58.37	0.13	-0.03

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)
Last gyro survey								

Design

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,600.00	6,599.21	17.34	57.78	Last gyro survey

Checked By:

Approved By:

Date:

10/13/2008 9:56:02AM

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COMPASS 2003.16 Build 42

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Asteo, NM 87410

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36421	Pool Code 97102	Pool Name Crow Flats, WOLF CAMP
Property Code 26994	Property Name JUNIOR "AWW" STATE	Well Number 4H
GRID No. 025575	Operator Name YATES PETROLEUM CORP.	Elevation 3564'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	17	16 S	28 E		2130	SOUTH	150	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	16 S	28 E		2270	SOUTH	330	WEST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>BOTTOM HOLE LOCATION Lat - N32°55'17.42" Long - W104°12'18.93" SPC- N.: 699002.030 E.: 580637.157 (NAD-83)</p>	<p>PROJECT AREA</p>	<p>PRODUCING AREA</p>	<p>SURFACE LOCATION Lat - N32°55'16.17" Long - W104°11'23.44" SPC- N.: 698881.801 E.: 585367.330 (NAD-83)</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Clifton R. May</i> 9/9/08 Signature Date</p> <p>CLIFTON R. MAY Printed Name</p>
				<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JULY 2 2008 Date Surveyed</p> <p>Signature & Seal Professional Surveyor</p> <p>W.L. Jones</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>

