

Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
July 17, 2008

1. WELL API NO.
30-015-37552

2. Type of Lease
☒ STATE ☐ FEE ☐ FED/INDIAN

3. State Oil & Gas Lease No.
VO-7312

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4. Reason for filing:
☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)
☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name
Osprey BPS State

6. Well Number:
1H

7. Type of Completion:
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator
Yates Petroleum Corporation

9. OGRID
025575

10. Address of Operator
105 South Fourth Street, Artesia, NM 88210

11. Pool name or Wildcat
Wildcat; Bone Spring (Gas)

12. Location

Unit Ltr

Section

Township

Range

Lot

Feet from the

N/S Line

Feet from the

E/W Line

County

Surface: M 32 25S 26E 660 South 330 West Eddy

BH: P 32 25S 26E 634 South 4926 West Eddy

13. Date Spudded
RH 2/1/10
RT 5/23/10

14. Date T.D. Reached
6/11/10

15. Date Rig Released
6/14/10

16. Date Completed (Ready to Produce)
10/15/10

17. Elevations (DF and RKB, RT, GR, etc.)
3434'GR 3453'KB

18. Total Measured Depth of Well
10,255'

19. Plug Back Measured Depth
10,200'

20. Was Directional Survey Made?
Yes (Attached)

21. Type Electric and Other Logs Run
CNL, Hi-Res Laterolog Array, CBL

22. Producing Interval(s), of this completion - Top, Bottom, Name
6313'- 10,198' Bone Spring

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	Conductor	40'	26"	Redi-mix	
13-3/8"	48#	386'	17-1/2"	350 sx (circ)	
9-5/8"	36#	1735'	12-1/4"	660 sx (circ)	
5-1/2"	17#	10,255'	7-7/8"	1400 sx (TOC450'CBL)	

24. LINER RECORD

25. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	5327'	

26. Perforation record (interval, size, and number)

SEE ATTACHED SHEET

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL
AMOUNT AND KIND MATERIAL USED

SEE ATTACHED SHEET

28. PRODUCTION

Date First Production
10/16/10

Production Method (Flowing, gas lift, pumping - Size and type pump)
Pumping

Well Status (Prod. or Shut-in)
Producing

Date of Test
10/26/10

Hours Tested
24 hrs

Choke Size
NA

Prod'n For Test Period

Oil - Bbl
0

Gas - MCF
2140

Water - Bbl.
1777

Gas - Oil Ratio
NA

Flow Tubing Press.
300 psi

Casing Pressure
380 psi

Calculated 24-Hour Rate

Oil - Bbl.
0

Gas - MCF
2140

Water - Bbl.
1777

Oil Gravity - API - (Corr.)
NA

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
Sold

30. Test Witnessed By
R. Smith

31. List Attachments
Logs, Directional and Deviation Surveys

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

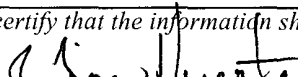
33. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude

Longitude

NAD 1927 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature  Printed Name Tina Huerta Title Regulatory Compliance Supervisor Date October 26, 2010

E-mail Address tinah@yatespetroleum.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completion: items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico	
T. Anhy	T. Canyon		T. Ojo Alamo	T. Penn A
T. Salt 370'	T. Strawn		T. Kirtland	T. Penn. "B
B. Salt 1539'	T. Atoka		T. Fruitland	T. Penn. "C
T. Yates	T. Miss		T. Pictured Cliffs	T. Penn. "D
T. 7 Rivers	T. Devonian		T. Cliff House	T. Leadville
T. Queen	T. Silurian		T. Menefee	T. Madison
T. Grayburg	T. Montoya		T. Point Lookout	T. Elbert
T. San Andres	T. Simpson		T. Mancos	T. McCracken
T. Glorieta	T. McKee		T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger		Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash		T. Dakota	
T. Tubb	T. Castile 232'		T. Morrison	
T. Drinkard	T. Bell Canyon 1814'		T. Todilto	
T. Abo	T. Cherry Canyon 2410'		T. Entrada	
T. Wolfcamp	T. Brushy Canyon 3760'		T. Wingate	
T. Penn	T. Bone Spring 5218'		T. Chinle	
T. Cisco	T		T. Permian	

OIL OR GAS SANITARY ZONES

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

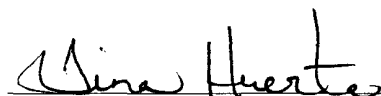
Form C-105 continued:

26. Perforation Record (interval, size and number)

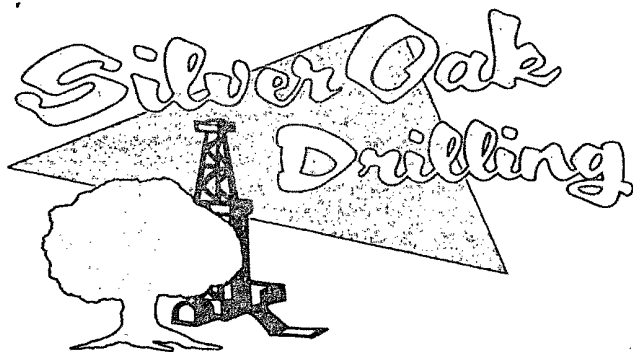
10,198' (9)	8185' (9)
10,054' (9)	8041' (9)
9910' (9)	7892' (9)
9765' (9)	7753' (9)
9625' (9)	7609' (9)
9481' (9)	7465' (9)
9337' (9)	7321' (9)
9193' (9)	7177' (9)
9049' (9)	7033' (9)
8905' (9)	6899' (9)
8761' (9)	6745' (9)
8617' (9)	6601' (9)
8473' (9)	6457' (9)
8329' (9)	6313' (9)

27. Acid, Shot, Fracture, Cement, Squeeze, Etc.

<u>Depth Interval</u>	<u>Amount and Kind Material Used</u>
9765'-10,198'	Acidized w/2500g 7-1/2% HCL acid. Frac with a 30# x-linked gel, 63,131# 40/70 white sand, 119,974# 20/40 white sand, 81,976# 20/40 Super LC
9645'	Spotted 1500g 7-1/2% HCL acid
9193'-9625'	Acidized w/2500g 7-1/2% HCL acid. Frac with a 30# borate x-linked gel, 55,280# 40/70 white sand, 73,688# 20/40 sand
9065'	Spotted 1500g 7-1/2% HCL acid
8617'-9049'	Acidized w/2500g 7-1/2% HCL acid. Frac with 67,871# 40/70 white sand, 112,750# 20/40 Texas Gold, 84,220# 20/40 Super LC
8493'	Spotted 1500g 7-1/2% HCL acid
8041'-8473'	Acidized w/2500g 7-1/2% HCL acid. Frac with 55,038# 40/70 white sand, 118,284# 20/40 Texas Gold, 82,788# 20/40 Super LC
7917'	Spotted 1500g 7-1/2% HCL acid
7465'-7892'	Acidized w/2500g 7-1/2% HCL acid. Frac with a 30# x-linked gel, 63,185# 40/70 white sand, 118,167# 20/40 Texas Gold, 84,647# 20/40 Super LC
7341'	Spotted 1500g 7-1/2% HCL acid
6899'-7321'	Acidized w/2500g 7-1/2% HCL acid. Frac with 65,718# 40/70 white sand, 119,127# 20/40 Texas Gold, 108,669# 20/40 Super LC
6765'	Spotted 1000g 7-1/2% acid
6313'-6745'	Acidized w/5000g 15% HCL acid. Frac with 66,357# 40/70 white sand, 119,850# 20/40 Texas Gold, 98,320# 20/40 Super LC



Regulatory Compliance Supervisor
October 26, 2010



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

June 14, 2010

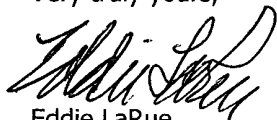
Yates Petroleum Corporation
105 S. 4th
Artesia, NM 88211-1395

RE: Osprey BPS State #1-H
660' FSL & 330' FWL
Sec. 32, T25S, R22E
Eddy County, New Mexico

Dear Sir,

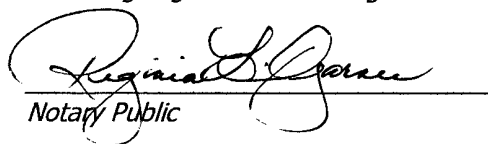
The attached is the Deviation Survey for the above captioned well.

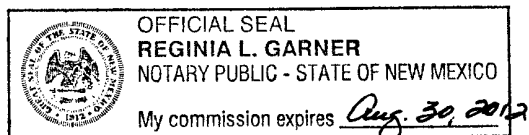
Very truly yours,


Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 14th day of June, 2010.


Notary Public



Pason DataHub Deviation Survey 2010/06/23 09:42:48

Well Dossier 1274642421 - OSPREY 'BPS' ST.#1H

#

# Date	Depth	Deviation	Direction	TVD	Horiz
5/24/2010	211	0.40	0.00	0.00	0.00
5/24/2010	365	0.40	0.00	0.00	0.00
5/26/2010	430	0.18	43.98	0.00	0.00
5/26/2010	613	0.35	35.83	0.00	0.00
5/26/2010	520	0.44	98.04	0.00	0.00
5/26/2010	704	0.18	5.71	0.00	0.00
5/26/2010	796	0.26	231.85	0.00	0.00
5/26/2010	891	0.26	236.02	0.00	0.00
5/26/2010	986	0.35	176.63	0.00	0.00
5/26/2010	1081	0.88	163.27	0.00	0.00
5/26/2010	1176	0.88	143.54	0.00	0.00
5/26/2010	1272	1.49	145.68	0.00	0.00
5/26/2010	1366	2.20	107.53	0.00	0.00
5/27/2010	1462	2.46	98.24	0.00	0.00
5/27/2010	1652	0.97	92.49	0.00	0.00
5/27/2010	1556	1.32	69.30	0.00	0.00
5/27/2010	1680	0.70	73.46	0.00	0.00
5/28/2010	1775	0.79	84.78	0.00	0.00
5/28/2010	1870	0.79	90.23	0.00	0.00
5/28/2010	1965	0.62	102.80	0.00	0.00
5/28/2010	2155	0.70	98.58	0.00	0.00
5/28/2010	2377	0.79	139.49	0.00	0.00
5/28/2010	2536	0.79	154.28	0.00	0.00
5/29/2010	2721	0.88	155.73	0.00	0.00
5/29/2010	2916	0.97	158.68	0.00	0.00
5/29/2010	3106	0.88	173.09	0.00	0.00
5/29/2010	3297	0.70	193.85	0.00	0.00
5/29/2010	3487	0.79	198.73	0.00	0.00
5/29/2010	3677	0.79	178.42	0.00	0.00
5/29/2010	3868	0.62	182.79	0.00	0.00
5/29/2010	4058	0.79	168.34	0.00	0.00
5/29/2010	4248	0.88	169.66	0.00	0.00
5/30/2010	4438	1.06	168.40	0.00	0.00
5/30/2010	4629	1.32	166.87	0.00	0.00
5/30/2010	4818	0.62	206.08	0.00	0.00
5/30/2010	5008	0.70	186.32	0.00	0.00
5/30/2010	5198	0.88	181.72	0.00	0.00
5/30/2010	5368	1.14	143.09	0.00	0.00
5/31/2010	5373	1.06	141.85	5372.00	28.33
5/31/2010	5431	4.31	93.11	5436.00	30.37
5/31/2010	5405	1.32	117.21	5404.00	28.84
5/31/2010	5467	8.62	91.30	5466.00	33.75
6/1/2010	5499	13.37	91.80	5497.00	39.85
6/1/2010	5562	21.19	92.58	5557.00	58.00
6/1/2010	5530	17.76	93.14	5527.00	48.16
6/1/2010	5594	23.65	89.51	5587.00	71.00
6/1/2010	5625	26.88	86.85	5615.00	84.11
6/1/2010	5689	32.62	86.11	5671.00	115.21
6/1/2010	5657	29.02	85.84	5043.00	98.95
6/1/2010	5721	37.28	86.67	5697.00	133.59

Pason DataHub Deviation Survey 2010/06/23 09:42:48

Well Dossier 1274642421 - OSPREY 'BPS' ST.#1H

#

#	Date	Depth	Deviation	Direction	TVD	Horiz
	6/1/2010	5752	41.15	87.09	5721.00	153.00
	6/1/2010	5816	47.57	87.96	5766.00	198.00
	6/1/2010	5784	44.85	87.57	5744.00	174.00
	6/1/2010	5847	51.18	88.67	5786.00	221.00
	6/2/2010	5879	55.13	90.06	5806.00	247.00
	6/2/2010	5911	58.74	92.58	5823.62	273.94
	6/3/2010	5960	64.90	94.76	5846.80	316.95
	6/3/2010	5991	68.85	94.73	5859.06	345.36
	6/3/2010	6023	70.61	94.79	5870.00	375.28
	6/3/2010	6059	72.30	94.55	5888.00	434.00
	6/3/2010	6167	74.30	94.64	5888.00	434.00
	6/4/2010	6116	76.06	94.64	5896.00	464.00
	6/4/2010	6178	79.84	94.94	5909.00	524.00
	6/4/2010	6240	83.01	94.68	5919.00	585.00
	6/4/2010	6147	77.82	95.06	5903.00	494.00
	6/4/2010	6209	81.34	94.87	5914.00	554.00
	6/4/2010	6271	84.94	94.65	5922.00	616.00
	6/4/2010	6396	91.89	93.32	5925.00	0.00
	6/4/2010	6489	91.88	93.31	5922.00	833.00
	6/4/2010	6583	91.80	93.98	5919.00	927.00
	6/4/2010	6769	91.80	92.48	6914.00	1113.00
	6/4/2010	6863	91.71	92.22	5911.00	1206.00
	6/5/2010	6957	90.40	90.93	5909.00	1300.00
	6/5/2010	7050	90.04	90.13	5908.00	1393.00
	6/5/2010	7144	89.97	90.18	5909.00	1487.00
	6/5/2010	7237	90.04	90.22	5909.00	1580.00
	6/5/2010	7331	90.66	90.22	5908.00	1674.00
	6/5/2010	7378	90.84	89.92	5907.00	1721.00
	6/6/2010	7424	90.75	90.01	5907.00	1767.00
	6/6/2010	7518	90.57	90.32	5906.00	1861.00
	6/6/2010	7611	90.40	89.75	5905.00	1954.00
	6/6/2010	7704	90.41	89.56	5904.00	2042.00
	6/7/2010	7797	89.78	89.32	5904.00	2140.00
	6/7/2010	7891	88.64	88.93	5905.90	2234.00
	6/7/2010	7985	90.13	89.83	5906.00	2328.00
	6/7/2010	8078	89.60	89.61	5907.10	2421.00
	6/8/2010	8171	88.99	90.47	5908.00	2514.00
	6/8/2010	8265	89.87	89.82	5909.00	2608.00
	6/8/2010	8358	88.29	89.61	5910.00	2701.00
	6/8/2010	8451	88.64	89.14	5913.00	2794.00
	6/8/2010	8544	89.34	88.60	5914.00	2887.00
	6/9/2010	8636	87.14	88.38	5917.00	2976.00
	6/9/2010	8757	88.90	89.70	5921.00	3100.00
	6/9/2010	8850	88.20	89.65	5924.00	3193.00
	6/10/2010	8943	89.69	88.69	5925.59	3286.00
	6/10/2010	9037	89.87	88.17	5926.00	3380.00
	6/10/2010	9131	89.34	88.22	5926.00	3474.00
	6/10/2010	9224	88.21	88.04	5928.00	3567.00
	6/10/2010	9318	89.34	86.79	5930.00	3661.00
	6/10/2010	9412	89.69	87.02	5930.00	3755.00

Pason DataHub Deviation Survey 2010/06/23 09:42:48

Well Dossier 1274642421 - OSPREY 'BPS' ST.#1H

#

#	Date	Depth	Deviation	Direction	TVD	Horiz
	6/10/2010	9505	89.69	87.27	5931.00	3847.00
	6/10/2010	9599	89.25	87.12	5932.00	3942.00
	6/11/2010	9692	88.29	86.54	59.34	4034.00
	6/11/2010	9786	88.90	86.77	5936.00	4128.00
	6/11/2010	9879	89.25	86.88	5937.00	4221.00
	6/11/2010	9972	89.78	86.57	59.38	4314.00
	6/11/2010	10065	89.87	86.60	5939.00	4406.00
	6/12/2010	10173	89.34	86.65	5939.00	4514.00

EOF



An Operating Unit of Smith International, Inc.

DIRECTIONAL SURVEY REPORT

YATES PETROLEUM
OSPREY "BPS" STATE #1H - SHC
EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

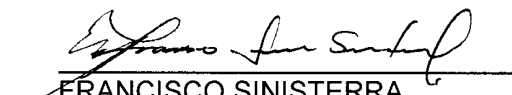
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) MATT SHIPP
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05-26-10 TO 06-12-10
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
OSPREY "BPS" STATE #1H - SHC
EDDY COUNTY, NM
RIG: SILVEROAK #10

9. SURVEY CERTIFIED FROM: 430 TO 5373 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 58.03 FEET ON A BEARING OF 149.87 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 5417 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 05/26/2010
Date Completed: 05/31/2010

YATES PETROLEUM CORPORATION
OSPREY "BPS" STATE #1H - STRAIGHT HOLE CONTROL
EDDY COUNTY, NEW MEXICO
Rig:SILVEROAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:M.SHIPP

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.4.51.1814 N LON:104.19.21.3981 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 544658.5000 Y: 393162.8000
North Aligned To:GRID NORTH
Total Magnetic Correction: 8.04° EAST TO GRID
Vertical Section Plane: 90.10
Survey Vert. Reference: 26.50' Kelly Bushing To Ground
Altitude:3434.00' Ground To MSL

Measured Depth	5417.00	(feet)
Inclination	1.06	(deg)
Azimuth	141.85	(deg)
True Vertical Depth	5416.36	(feet)
Vertical Section	29.21	(feet)
Survey X cord	544687.63	(feet)
Survey Y cord	393112.61	(feet)
Survey Lat	32.08074574 N	(deg)
Survey Lon	104.32251657 W	(deg)
Rectangular Corr. N/S	50.19 S	(feet)
Rectangular Corr. E/W	29.13 E	(feet)
Closure Distance	58.03	(feet)
Direction of Closure	149.87	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
OSPREY "BPS" STATE #1H - STRAIGHT HOLE CONTROL
EDDY COUNTY, NEW MEXICO
Rig: SILVEROAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: M. SHIPP

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.451.1814 N LON: 104.19.21.3981 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 544658.5000 Y: 393162.8000
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.04° EAST TO GRID
Vertical Section Plane: 90.10
Survey Vert. Reference: 26.50' Kelly Bushing To Ground
Altitude: 3434.00' Ground To MSL

Survey Calculations by PathCalc v2.00 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	Rectangular Offsets (ft)	TOTAL (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
TIE IN TO MULTI-SHOT GYRO @ 400' MD.									
400.00	0.60	96.24	400.00	0.00					
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.									
430.00	0.18	43.98	430.00	30.00	0.79	0.83 N	0.79 E	1.14@ 43.65	1.70
520.00	0.44	98.04	520.00	90.00	1.23	0.88 N	1.23 E	1.51@ 54.39	0.41
613.00	0.35	35.83	613.00	93.00	1.75	1.06 N	1.75 E	2.05@ 58.77	0.45
704.00	0.18	5.71	704.00	91.00	1.92	1.43 N	1.93 E	2.40@ 53.44	0.24
796.00	0.26	231.85	795.99	92.00	1.77	1.44 N	1.78 E	2.29@ 50.91	0.44
891.00	0.26	236.02	890.99	95.00	1.43	1.19 N	1.43 E	1.86@ 50.21	0.02
986.00	0.35	170.63	985.99	95.00	1.30	0.78 N	1.30 E	1.51@ 58.88	0.36
1081.00	0.88	163.27	1080.99	95.00	1.55	0.20 S	1.55 E	1.57@ 97.42	0.56
1176.00	0.88	143.54	1175.98	95.00	2.20	1.49 S	2.20 E	2.65@ 124.10	0.32
1272.00	1.49	145.68	1271.96	96.00	3.34	3.11 S	3.34 E	4.56@ 132.98	0.64
1366.00	2.20	107.53	1365.91	94.00	5.76	4.66 S	5.75 E	7.40@ 129.05	1.47
1462.00	2.46	98.24	1461.83	96.00	9.55	5.51 S	9.54 E	11.02@ 120.02	0.48
1556.00	1.32	69.30	1555.78	94.00	12.56	5.42 S	12.55 E	13.67@ 113.36	1.55
1652.00	0.97	92.49	1651.76	96.00	14.41	5.07 S	14.40 E	15.27@ 109.38	0.60
1775.00	0.79	84.78	1774.75	123.00	16.29	5.03 S	16.28 E	17.05@ 107.18	0.17
1965.00	0.62	102.80	1964.73	190.00	18.60	5.14 S	18.59 E	19.29@ 105.46	0.15
2155.00	0.70	98.58	2154.72	190.00	20.75	5.54 S	20.74 E	21.47@ 104.96	0.05
2346.00	0.79	139.49	2345.70	191.00	22.76	6.72 S	22.75 E	23.72@ 106.45	0.28
2536.00	0.79	154.28	2535.69	190.00	24.19	8.89 S	24.17 E	25.75@ 110.20	0.11
2726.00	0.88	155.73	2725.67	190.00	25.36	11.40 S	25.34 E	27.79@ 114.23	0.05
2916.00	0.97	158.68	2915.64	190.00	26.55	14.23 S	26.52 E	30.10@ 118.22	0.05
3106.00	0.88	173.09	3105.62	190.00	27.31	17.18 S	27.28 E	32.24@ 122.20	0.13
3297.00	0.70	193.85	3296.60	191.00	27.21	19.77 S	27.18 E	33.61@ 126.03	0.18

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
 OSPREY "BPS" STATE #1H - STRAIGHT HOLE CONTROL
 EDDY COUNTY, NEW MEXICO
 RIG:SILVEROAK #10

Page 02/02

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)
3487.00	0.79	198.73	3486.58	190.00	26.52	22.14 S 26.48 E	34.51@ 129.89	0.06
3677.00	0.79	178.42	3676.57	190.00	26.14	24.69 S 26.10 E	35.92@ 133.41	0.15
3868.00	0.62	182.79	3867.55	191.00	26.13	27.03 S 26.08 E	37.57@ 136.02	0.09
4058.00	0.79	168.34	4057.54	190.00	26.35	29.34 S 26.30 E	39.40@ 138.13	0.13
4248.00	0.88	169.66	4247.52	190.00	26.88	32.06 S 26.82 E	41.80@ 140.08	0.05
4438.00	1.06	168.40	4437.49	190.00	27.50	35.22 S 27.44 E	44.65@ 142.08	0.10
4629.00	1.32	166.87	4628.45	191.00	28.36	39.09 S 28.29 E	48.26@ 144.10	0.14
4818.00	0.62	206.08	4817.42	189.00	28.41	42.13 S 28.34 E	50.77@ 146.07	0.49
5008.00	0.70	186.32	5007.41	190.00	27.84	44.21 S 27.76 E	52.20@ 147.87	0.13
5198.00	0.88	181.72	5197.39	190.00	27.67	46.82 S 27.59 E	54.34@ 149.49	0.10
5368.00	1.14	143.09	5367.37	170.00	28.65	49.48 S 28.56 E	57.13@ 150.00	0.42
5373.00	1.06	141.85	5372.37	5.00	28.71	49.55 S 28.62 E	57.22@ 149.99	1.67
STRAIGHT LINE PROJECTION TO BIT @ 5417' MD								
5417.00	1.06	141.85	5416.36	44.00	29.21	50.19 S 29.13 E	58.03@ 149.87	0.00

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	YATES PETROLEUM CORPORATION		
LEASE / WELL No.:	OSPREY "BPS" STATE	#1H	
WELL LOCATION:	BONE SPRING		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	SILVEROAK #10		
API WELL No:	30-015-37552		
JOB No:	101010521 WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PES		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	8.04	LWD Calculated:	8.04
		Agreed Upon:	8.04
X =	544658.500000	Feet	Y = 393162.800000
			Feet
SITE LATITUDE:	32.080884N	SITE LONGITUDE:	104.322611W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	90.1		
KELLY BUSHING ELEVATION:	17.5		
ALTITUDE:	3434	Feet	WATER DEPTH:
			Feet

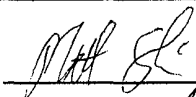
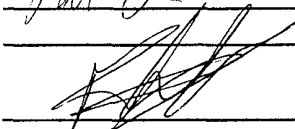
TIE-IN SURVEY

MEASURED DEPTH:	330		
DRIFT ANGLE:	0		
DRIFT DIRECTION:	0		
TRUE VERTICAL DEPTH:	330		
VERTICAL SECTION:	0		
RECTANGULAR COORDINATE (N / S) :	0		
RECTANGULAR COORDINATE (E / W) :	0		
CLOSURE DISTANCE / DIRECTION:	0	0	
SURVEY CALCULATION METHOD:	AA ☐	MC ☐	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	N/A		
COPY OF TIE-IN SURVEY REPORT	☐ YES ☒ NO		

WELL PLAN

KICKOFF DEPTH:	485	TOTAL DEPTH:	10332
KICKOFF ANGLE:	0	MAX ANGLE:	90

PES Engineers:

**Signature of both field engineers required if applicable

Directional Driller:

DATE: 5/27/10



An Operating Unit of Smith International, Inc.

DIRECTIONAL SURVEY REPORT

YATES PETROLEUM

OSPREY "BPS" STATE #1H

EDDY COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

Pathfinder Energy Services, Inc.
6213 W. Interstate 20 • Midland, TX • 79706
(432) 681-6000

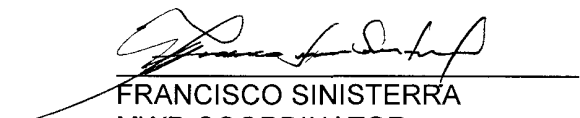
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) MATT SHIPP
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05-26-10 TO 06-12-10
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
OSPREY "BPS" STATE #1H
EDDY COUNTY, NM
RIG: SILVEROAK #10

9. SURVEY CERTIFIED FROM: 613 TO 10173 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4596.57 FEET ON A BEARING OF 90.41 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 10255 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



FRANCISCO SINISTERRA
MWD COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 05/26/2010
Date Completed: 06/12/2010

YATES PETROLEUM CORPORATION
OSPREY "BPS" STATE #1H - HORIZONTAL
EDDY COUNTY, NEW MEXICO
Rig:SILVEROAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:M.SHIPP
P.DAS
J.SNOW

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.4.51.1814 N LON:104.19.21.3981 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 544658.5000 Y: 393162.8000
North Aligned To:GRID NORTH
Total Magnetic Correction: 8.04° EAST TO GRID
Vertical Section Plane: 90.10
Survey Vert. Reference: 26.50' Kelly Bushing To Ground
Altitude:3434.00' Ground To MSL

Measured Depth	10255.00	(feet)
Inclination	89.34	(deg)
Azimuth	86.65	(deg)
True Vertical Depth	5940.69	(feet)
Vertical Section	4596.50	(feet)
Survey X cord	549254.95	(feet)
Survey Y cord	393129.92	(feet)
Survey Lat	32.08079121 N	(deg)
Survey Lon	104.30776973 W	(deg)
Rectangular Corr. N/S	32.88 S	(feet)
Rectangular Corr. E/W	4596.45 E	(feet)
Closure Distance	4596.57	(feet)
Direction of Closure	90.41	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
OSPREY "BPS" STATE #1H - HORIZONTAL
EDDY COUNTY, NEW MEXICO
Rig: SILVEROAK #10
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: M. SHIPP
P.DAS
J.SNOW

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.451.1814 N LON: 104.19.21.3981 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 544658.5000 Y: 393162.8000
North Aligned To: GRID NORTH
Total Magnetic Correction: 8.04° EAST TO GRID
Vertical Section Plane: 90.10
Survey Vert. Reference: 26.50' Kelly Bushing To Ground
Altitude: 3434.00' Ground To MSL

Survey Calculations by RX5 V6.03A 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 TO MULTI-SHOT GYRO @ 600' MD.								
600.00	0.25	57.59	600.00	0.00	1.40	1.00 N	1.72@ 54.46	0.00
613.00	0.35	35.83	613.00	13.00	1.45	1.05 N	1.79@ 54.11	1.15
704.00	0.18	5.71	704.00	91.00	1.62	1.41 N	2.15@ 48.94	0.24
796.00	0.26	231.85	796.00	92.00	1.47	1.43 N	2.05@ 45.88	0.44
891.00	0.26	236.02	891.00	95.00	1.12	1.18 N	1.63@ 43.75	0.02
986.00	0.35	170.63	986.00	95.00	0.99	0.77 N	1.26@ 52.27	0.36
1081.00	0.88	163.27	1080.99	95.00	1.25	0.22 S	1.27@ 99.77	0.56
1176.00	0.88	143.54	1175.98	95.00	1.90	1.50 S	2.42@ 128.37	0.32
1272.00	1.49	145.68	1271.96	96.00	3.04	3.12 S	4.36@ 135.81	0.64
1366.00	2.20	107.53	1365.91	94.00	5.45	4.68 S	7.18@ 130.65	1.47
1462.00	2.46	98.24	1461.83	96.00	9.25	5.53 S	10.77@ 120.88	0.48
1556.00	1.32	69.30	1555.78	94.00	12.26	5.43 S	13.40@ 113.92	1.55
1652.00	0.97	92.49	1651.76	96.00	14.11	5.08 S	14.99@ 109.81	0.60
1775.00	0.79	84.78	1774.75	123.00	15.99	5.05 S	16.76@ 107.52	0.17
1965.00	0.62	102.80	1964.74	190.00	18.30	5.16 S	19.00@ 105.74	0.15
2155.00	0.70	98.58	2154.72	190.00	20.45	5.56 S	21.18@ 105.21	0.05
2346.00	0.79	139.49	2345.71	191.00	22.46	6.73 S	23.44@ 106.69	0.28
2536.00	0.79	154.28	2535.69	190.00	23.88	8.91 S	25.48@ 110.46	0.11
2726.00	0.88	155.73	2725.67	190.00	25.06	11.42 S	27.52@ 114.51	0.05
2916.00	0.97	158.68	2915.65	190.00	26.25	14.25 S	29.84@ 118.52	0.05
3106.00	0.88	173.09	3105.62	190.00	27.01	17.19 S	31.99@ 122.51	0.13
3297.00	0.70	193.85	3296.60	191.00	26.91	19.78 S	33.37@ 126.35	0.18
3487.00	0.79	198.73	3486.59	190.00	26.22	22.15 S	34.29@ 130.23	0.06
3677.00	0.79	178.42	3676.57	190.00	25.84	24.70 S	35.71@ 133.76	0.15

THE FOLLOWING ARE PATHFINDER MWD SURVEYS.

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
 OSPREY "BPS" STATE #1H - HORIZONTAL
 EDDY COUNTY, NEW MEXICO
 RIG:SILVEROAK #10

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)
3868.00	0.62	182.79	3867.55	191.00	25.83	27.05 S 25.78 E	37.37@ 136.37	0.09
4058.00	0.79	168.34	4057.54	190.00	26.05	29.36 S 26.00 E	39.21@ 138.47	0.13
4248.00	0.88	169.66	4247.52	190.00	26.58	32.07 S 26.52 E	41.62@ 140.41	0.05
4438.00	1.06	168.40	4437.49	190.00	27.20	35.23 S 27.14 E	44.47@ 142.39	0.10
4629.00	1.32	166.87	4628.45	191.00	28.06	39.10 S 27.99 E	48.09@ 144.40	0.14
4818.00	0.62	206.08	4817.42	189.00	28.11	42.14 S 28.04 E	50.62@ 146.36	0.49
5008.00	0.70	186.32	5007.41	190.00	27.54	44.22 S 27.46 E	52.05@ 148.16	0.13
5198.00	0.88	181.72	5197.39	190.00	27.37	46.83 S 27.29 E	54.20@ 149.77	0.10
5373.00	1.06	141.85	5372.37	175.00	28.33	49.45 S 28.25 E	56.95@ 150.26	0.39
5405.00	1.32	117.21	5404.36	32.00	28.84	49.85 S 28.76 E	57.55@ 150.02	1.77
5437.00	4.31	93.11	5436.32	32.00	30.37	50.08 S 30.29 E	58.53@ 148.84	9.85
5467.00	8.62	91.30	5466.12	30.00	33.75	50.20 S 33.66 E	60.44@ 146.15	14.38
5499.00	13.37	91.80	5497.53	32.00	39.85	50.37 S 39.76 E	64.17@ 141.71	14.85
5530.00	17.76	93.14	5527.38	31.00	48.16	50.74 S 48.07 E	69.89@ 136.55	14.21
5562.00	21.19	92.58	5557.55	32.00	58.81	51.27 S 58.72 E	77.95@ 131.12	10.73
5594.00	23.65	89.51	5587.13	32.00	71.01	51.47 S 70.92 E	87.63@ 125.97	8.51
5625.00	26.38	86.85	5615.22	31.00	84.10	51.04 S 84.02 E	98.30@ 121.28	9.52
5657.00	29.02	85.80	5643.55	32.00	98.95	50.08 S 98.86 E	110.82@ 116.87	8.39
5689.00	32.62	86.11	5671.03	32.00	115.29	48.93 S 115.21 E	125.17@ 113.01	11.26
5721.00	37.28	86.67	5697.25	32.00	133.58	47.78 S 133.50 E	141.79@ 109.69	14.60
5752.00	41.15	87.09	5721.26	31.00	153.15	46.71 S 153.07 E	160.04@ 106.97	12.51
5784.00	44.85	87.57	5744.66	32.00	174.94	45.70 S 174.86 E	180.74@ 104.65	11.61
5816.00	47.57	87.96	5766.80	32.00	198.02	44.80 S 197.94 E	202.95@ 102.75	8.55
5847.00	51.18	88.67	5786.98	31.00	221.53	44.11 S 221.46 E	225.81@ 101.27	11.77
5879.00	55.13	90.06	5806.17	32.00	247.13	43.84 S 247.06 E	250.92@ 100.06	12.82
5911.00	58.74	92.58	5823.63	32.00	273.94	44.47 S 273.86 E	277.45@ 99.22	13.07
5930.00	60.76	93.46	5833.20	19.00	290.33	45.33 S 290.25 E	293.77@ 98.88	11.36
5960.00	64.90	94.76	5846.90	30.00	316.95	47.25 S 316.86 E	320.37@ 98.48	14.33

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
OSPREY "BPS" STATE #1H - HORIZONTAL
EDDY COUNTY, NEW MEXICO
RIG:SILVEROAK #10

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)
5991.00	68.85	94.73	5859.07	31.00	345.36	49.61 S 345.27 E	348.82@ 98.18	12.74
6023.00	70.61	94.79	5870.15	32.00	375.27	52.10 S 375.18 E	378.78@ 97.91	5.50
6054.00	72.37	94.55	5880.00	31.00	404.57	54.49 S 404.48 E	408.13@ 97.67	5.72
6085.00	74.30	94.64	5888.89	31.00	434.18	56.87 S 434.08 E	437.79@ 97.46	6.23
6116.00	76.06	94.64	5896.81	31.00	464.05	59.30 S 463.95 E	467.72@ 97.28	5.68
6147.00	77.82	95.06	5903.82	31.00	494.15	61.85 S 494.04 E	497.90@ 97.14	5.83
6178.00	79.84	94.94	5909.82	31.00	524.45	64.50 S 524.34 E	528.29@ 97.01	6.53
6209.00	81.34	94.87	5914.89	31.00	554.92	67.12 S 554.81 E	558.85@ 96.90	4.84
6240.00	83.01	94.68	5919.11	31.00	585.53	69.67 S 585.41 E	589.54@ 96.79	5.42
6271.00	84.94	94.65	5922.37	31.00	616.26	72.18 S 616.13 E	620.35@ 96.68	6.23
6302.00	86.88	94.41	5924.58	31.00	647.09	74.62 S 646.96 E	651.25@ 96.58	6.31
6396.00	91.89	93.32	5925.59	94.00	740.85	80.95 S 740.71 E	745.12@ 96.24	5.45
6489.00	91.80	93.31	5922.59	93.00	833.65	86.33 S 833.50 E	837.96@ 95.91	0.10
6583.00	91.80	93.98	5919.64	94.00	927.43	92.30 S 927.27 E	931.85@ 95.68	0.71
6677.00	91.71	93.49	5916.76	94.00	1021.19	98.42 S 1021.02 E	1025.75@ 95.51	0.53
6769.00	91.80	92.48	5913.94	92.00	1113.03	103.21 S 1112.85 E	1117.63@ 95.30	1.10
6863.00	91.71	92.22	5911.06	94.00	1206.91	107.06 S 1206.73 E	1211.47@ 95.07	0.29
6957.00	90.40	90.93	5909.33	94.00	1300.86	109.65 S 1300.67 E	1305.29@ 94.82	1.96
7050.00	90.04	90.13	5908.98	93.00	1393.86	110.51 S 1393.67 E	1398.04@ 94.53	0.94
7144.00	89.87	90.18	5909.05	94.00	1487.86	110.76 S 1487.67 E	1491.79@ 94.26	0.19
7237.00	90.04	90.22	5909.12	93.00	1580.86	111.09 S 1580.67 E	1584.57@ 94.02	0.19
7331.00	90.66	90.22	5908.55	94.00	1674.86	111.45 S 1674.66 E	1678.37@ 93.81	0.66
7378.00	90.84	89.92	5907.93	47.00	1721.85	111.50 S 1721.66 E	1725.27@ 93.71	0.74
7424.00	90.75	90.01	5907.30	46.00	1767.85	111.48 S 1767.66 E	1771.17@ 93.61	0.28
7518.00	90.57	90.32	5906.21	94.00	1861.84	111.75 S 1861.65 E	1865.00@ 93.44	0.38
7611.00	90.40	89.75	5905.43	93.00	1954.84	111.80 S 1954.65 E	1957.84@ 93.27	0.64
7704.00	90.40	89.56	5904.78	93.00	2047.83	111.24 S 2047.64 E	2050.66@ 93.11	0.20
7797.00	89.78	89.32	5904.63	93.00	2140.83	110.33 S 2140.64 E	2143.48@ 92.95	0.71

PathFinder Energy Services, Inc.

Survey Report

YATES PETROLEUM CORPORATION
 OSPREY "BPS" STATE #1H - HORIZONTAL
 EDDY COUNTY, NEW MEXICO
 RIG:SILVEROAK #10

Page 04/04

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)
7891.00	88.64	88.93	5905.93	94.00	2234.80	108.90 S 2234.61 E	2237.27@ 92.79	1.28
7985.00	90.13	89.83	5906.93	94.00	2328.78	107.88 S 2328.60 E	2331.10@ 92.65	1.85
8078.00	89.60	89.61	5907.15	93.00	2421.78	107.43 S 2421.60 E	2423.98@ 92.54	0.62
8171.00	88.99	90.47	5908.30	93.00	2514.77	107.49 S 2514.59 E	2516.89@ 92.45	1.13
8255.00	89.87	89.82	5909.23	94.00	2608.77	107.73 S 2608.58 E	2610.81@ 92.36	1.16
8358.00	88.29	89.61	5910.73	93.00	2701.75	107.27 S 2701.57 E	2703.70@ 92.27	1.71
8451.00	88.64	89.14	5913.22	93.00	2794.71	106.25 S 2794.53 E	2796.55@ 92.18	0.63
8544.00	89.34	88.60	5914.86	93.00	2887.67	104.42 S 2887.49 E	2889.38@ 92.07	0.95
8636.00	87.14	88.38	5917.68	92.00	2979.59	102.00 S 2979.41 E	2981.16@ 91.96	2.40
8757.00	88.90	89.70	5921.86	121.00	3100.49	99.97 S 3100.32 E	3101.93@ 91.85	1.82
8850.00	88.20	89.45	5924.22	93.00	3193.45	99.28 S 3193.28 E	3194.83@ 91.78	0.80
8943.00	89.69	88.69	5925.93	93.00	3286.42	97.77 S 3286.25 E	3287.71@ 91.70	1.80
9037.00	89.87	88.17	5926.29	94.00	3380.38	95.20 S 3380.22 E	3381.56@ 91.61	0.59
9131.00	89.34	88.22	5926.94	94.00	3474.32	92.24 S 3474.17 E	3475.39@ 91.52	0.57
9224.00	88.81	88.04	5928.44	93.00	3567.26	89.20 S 3567.10 E	3568.22@ 91.43	0.60
9318.00	89.34	86.79	5929.96	94.00	3661.14	84.96 S 3661.00 E	3661.98@ 91.33	1.44
9412.00	89.69	87.02	5930.75	94.00	3754.99	79.89 S 3754.85 E	3755.70@ 91.22	0.45
9505.00	89.69	87.27	5931.26	93.00	3847.86	75.26 S 3847.74 E	3848.47@ 91.12	0.27
9598.00	89.25	87.12	5932.12	94.00	3941.74	70.66 S 3941.62 E	3942.25@ 91.03	0.49
9692.00	88.29	86.54	5934.12	93.00	4034.56	65.52 S 4034.46 E	4034.99@ 90.93	1.21
9786.00	88.90	86.77	5936.43	94.00	4128.36	60.03 S 4128.27 E	4128.70@ 90.83	0.69
9879.00	89.25	86.88	5937.93	93.00	4221.20	54.88 S 4221.11 E	4221.47@ 90.74	0.39
9972.00	89.78	86.57	5938.71	93.00	4314.04	49.57 S 4313.96 E	4314.24@ 90.66	0.66
10065.00	89.87	86.60	5939.00	93.00	4406.86	44.03 S 4406.79 E	4407.01@ 90.57	0.10
10173.00	89.34	86.65	5939.74	108.00	4514.66	37.67 S 4514.60 E	4514.76@ 90.48	0.49
10255.00	89.34	86.65	5940.69	82.00	4596.50	32.88 S 4596.45 E	4596.57@ 90.41	0.00

STRAIGHT LINE PROJECTION TO BIT @ 10255' MD.

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	YATES PETROLEUM CORPORATION		
LEASE / WELL No.:	OSPREY "BPS" STATE	#1H	
WELL LOCATION:	BONE SPRING		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	SILVEROAK #10		
API WELL No:	30-015-37552		
JOB No:	101010521 WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PES		

WELL SITE INFORMATION

MAGNETIC DECLINATION:			
On Wall Plat:	8.04	LWD Calculated:	8.04
		Agreed Upon:	8.04
X =	544658.500000	Feet	Y = 393162.800000
			Feet
SITE LATITUDE:	32.080884N	SITE LONGITUDE:	104.322611W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	90.1		
KELLY BUSHING ELEVATION:	17.5		
ALTITUDE:	3434	Feet	WATER DEPTH:
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	600		
DRIFT ANGLE:	0.25		
DRIFT DIRECTION:	57.59		
TRUE VERTICAL DEPTH:	600		
VERTICAL SECTION:	1.4		
RECTANGULAR COORDINATE (N / S) :	1		
RECTANGULAR COORDINATE (E / W) :	1.4		
CLOSURE DISTANCE / DIRECTION:	1.72	54.59	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	MULTISHOT		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	5417	TOTAL DEPTH:	10332
KICKOFF ANGLE:	1	MAX ANGLE:	90

PES Engineers:

****Signature of both field engineers required if applicable**

Directional Driller:

DATE: 5/3/10

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

YATES PETROLEUM
OSPREY "BPS" STATE #1H
EDDY COUNTY, NEW MEXICO
Rig:SILVER OAK 10

Mon May 24 17:20:26 2010

Coordinates

Latitude: 32.080884 N (32 deg. 4 min. 51.1814 sec.)
Longitude: 104.322611 W (-104 deg. 19 min. 21.3981 sec.)
Elevation: 3451.50 feet.
Calculation Date: May/24/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 59.9453 degrees
Total Magnetic Field: 0.48549 gauss
Magnetic Declination: 8.042265 degrees
Horizontal Intensity: 0.243146 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 8.042265 Degr.

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 544658.5000 feet
Y: 393162.8000 feet
True to Grid: (convergence) -0.005695 degrees
Magnetic to Grid: 8.036570 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 8.036570 Degr.

MS ENERGY SERVICES
CORPUS CHRISTI, TEXAS

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

* **YATES PETROLEUM CORPORATION** *

JOB NUMBER: SVCO 100432

WELL NAME: OSPREY BPS STATE #1H

LOCATION: EDDY COUNTY, NEW MEXICO

SURVEY DATE: MAY 31,2010

SURVEY ENGINEER: TREY FINCH

MAGNETIC DECLINATION: 08.04 GRID NORTH

GYRO REFERENCE BEARING: GRID NORTH

VERTICAL SECTION CALCULATED IN A
PROPOSAL DIRECTION OF: 090.10
SURF. ELEVATION: 18.5

***** DEPTH MEASURED IN FEET *****

***** THIS DIRECTIONAL SURVEY REPORT IS *****
***** CORRECT TO THE BEST OF MY KNOWLEDGE *****
COMMENTS: RIG: SILVER OAK DRILLING #10* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
** **
** **
** ***** **
** COMPANY REPRESENTATIVE **

MS ENERGY SERVICES
CORPUS CHRISTI, TEXAS

JOB NUMBER: SVCO 100432

WELL NAME: OSPREY BPS STATE #1H

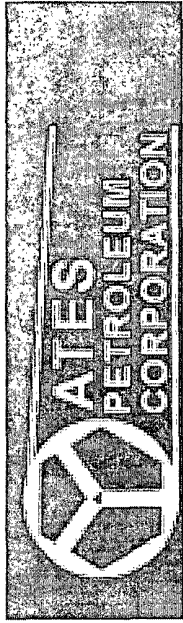
INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES		D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
						LATITUDE	DEPARTURE				
0.0	0.00	0.00	0.000	00.00	000.00	0.00 N	0.00 E	0.00		0.00	AT 000.00
200.0	200.00	0.08	-0.429	00.25	010.90	0.43 N	0.08 E	0.13	0.25	0.44	AT 010.90
400.0	400.00	0.60	-0.811	00.25	096.24	0.81 N	0.60 E	0.17	0.34	1.01	AT 036.49
600.0	600.00	1.40	-0.998	00.25	057.59	1.00 N	1.40 E	0.08	0.17	1.72	AT 054.59

```

*****
*                                     *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF      *
*                                     *
*      600.00 FEET EQUALS          1.72    FEET AT  054.59      *
*                                     *
*****

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Yates Petroleum Corp.

Eddy County
Osprey "BPS" State
#1H
OH

Survey: MWD #1

Pathfinder X & Y Survey Report

14 June, 2010

PATHFINDER



Pathfinder

Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Site:	Osprey "BPS" State	MD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

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	Osprey "BPS" State
------	--------------------

Site Position:		Northings:	393,162.800 ft	Latitude:	32° 4' 51.181 N
From:	Map	Easting:	544,658.500 ft	Longitude:	104° 19' 21.398 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.01 °

Well	#1H					
Well Position	+N/-S	0.00 ft	Northings:	393,162.800 ft	Latitude:	32° 4' 51.181 N
	+E/-W	0.00 ft	Easting:	544,658.500 ft	Longitude:	104° 19' 21.398 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft		Ground Level:	3,434.00 ft

Wellbore	OH
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Magnetics	Model Name	Sample Date	Dip Angle	Field Strength
	IGRF2010	05/30/2010	59.94	(nT)
			8.04	48.573

Design	OH
--------	----

Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	90.10	



Pathfinder

Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Site:	Osprey "BPS" State	MD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey Program			Date	06/14/2010
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	600.00	0.33	45.20	600.00	-2,852.50	1.01	1.61	1.60	0.00	393,163.81	544,660.11
	613.00	0.35	35.83	612.99	-2,839.51	1.07	1.66	1.65	0.45	393,163.87	544,660.16
	704.00	0.18	5.71	703.99	-2,748.51	1.44	1.83	1.83	0.24	393,164.24	544,660.33
	796.00	0.26	231.85	795.99	-2,656.51	1.45	1.68	1.68	0.44	393,164.25	544,660.18
	891.00	0.26	236.02	890.99	-2,561.51	1.20	1.34	1.33	0.02	393,164.00	544,659.84
	986.00	0.35	170.63	985.99	-2,466.51	0.79	1.20	1.20	0.36	393,163.59	544,659.70
	1,081.00	0.88	163.27	1,080.99	-2,371.51	-0.19	1.46	1.46	0.56	393,162.61	544,659.96
	1,176.00	0.88	143.54	1,175.97	-2,276.53	-1.48	2.10	2.11	0.32	393,161.32	544,660.60
	1,272.00	1.49	145.68	1,271.95	-2,180.55	-3.10	3.25	3.25	0.64	393,159.70	544,661.75
	1,366.00	2.20	107.53	1,365.91	-2,086.59	-4.65	5.66	5.66	1.47	393,158.15	544,664.16
	1,462.00	2.46	98.24	1,461.83	-1,990.67	-5.51	9.45	9.46	0.48	393,157.29	544,667.95
	1,556.00	1.32	69.30	1,555.78	-1,896.72	-5.41	12.46	12.47	1.55	393,157.39	544,670.96
	1,652.00	0.97	92.49	1,651.76	-1,800.74	-5.06	14.31	14.32	0.60	393,157.74	544,672.81
	1,775.00	0.79	84.78	1,774.74	-1,677.76	-5.02	16.19	16.20	0.17	393,157.78	544,674.69
	1,965.00	0.62	102.80	1,964.73	-1,487.77	-5.13	18.50	18.51	0.15	393,157.67	544,677.00
	2,155.00	0.70	98.58	2,154.72	-1,297.78	-5.53	20.65	20.66	0.05	393,157.27	544,679.15
	2,346.00	0.79	139.49	2,345.70	-1,106.80	-6.71	22.66	22.67	0.28	393,156.09	544,681.16
	2,536.00	0.79	154.28	2,535.68	-916.82	-8.88	24.08	24.09	0.11	393,153.92	544,682.58
	2,726.00	0.88	155.73	2,725.66	-726.84	-11.39	25.25	25.27	0.05	393,151.41	544,683.75
	2,916.00	0.97	158.68	2,915.64	-536.86	-14.22	26.43	26.46	0.05	393,148.58	544,684.93
	3,106.00	0.88	173.09	3,105.62	-346.88	-17.17	27.19	27.22	0.13	393,145.63	544,685.69



Pathfinder

Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Site:	Osprey "BPS" State	MD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	3,297.00	0.70	193.85	3,296.60	-155.90	-19.76	27.09	27.12	0.18	393,143.04	544,685.59
	3,487.00	0.79	198.73	3,486.58	34.08	-22.13	26.39	26.43	0.06	393,140.67	544,684.89
	3,677.00	0.79	178.42	3,676.56	224.06	-24.68	26.00	26.05	0.15	393,138.12	544,684.50
	3,868.00	0.62	182.79	3,867.55	415.05	-27.02	25.99	26.04	0.09	393,135.78	544,684.49
	4,058.00	0.79	188.34	4,057.54	605.04	-29.33	26.21	26.26	0.13	393,133.47	544,684.71
	4,248.00	0.88	169.66	4,247.51	795.01	-32.05	26.73	26.79	0.05	393,130.75	544,685.23
	4,438.00	1.06	168.40	4,437.49	984.99	-35.21	27.35	27.41	0.10	393,127.59	544,685.85
	4,629.00	1.32	166.87	4,628.45	1,175.95	-39.08	28.20	28.27	0.14	393,123.72	544,686.70
	4,818.00	0.62	206.08	4,817.42	1,364.92	-42.12	28.25	28.32	0.49	393,120.68	544,686.75
	5,008.00	0.70	186.32	5,007.41	1,554.91	-44.20	27.67	27.74	0.13	393,118.60	544,686.17
	5,198.00	0.88	181.72	5,197.39	1,744.89	-46.81	27.50	27.58	0.10	393,115.99	544,686.00
	5,373.00	1.06	141.85	5,372.37	1,919.87	-49.43	28.46	28.54	0.39	393,113.37	544,686.96
	5,405.00	1.32	117.21	5,404.36	1,951.86	-49.83	28.97	29.05	1.77	393,112.97	544,687.47
	5,437.00	4.31	93.11	5,436.32	1,983.82	-50.06	30.50	30.58	9.85	393,112.74	544,689.00
	5,467.00	8.62	91.30	5,466.12	2,013.62	-50.17	33.87	33.96	14.38	393,112.63	544,692.37
	5,499.00	13.37	91.80	5,497.52	2,045.02	-50.34	39.97	40.06	14.85	393,112.46	544,698.47
	5,530.00	17.76	93.14	5,527.38	2,074.88	-50.72	48.28	48.36	14.21	393,112.08	544,706.78
	5,562.00	21.19	92.58	5,557.54	2,105.04	-51.24	58.93	59.02	10.73	393,111.56	544,717.43
	5,594.00	23.65	89.51	5,587.12	2,134.62	-51.45	71.13	71.22	8.51	393,111.35	544,729.63
	5,625.00	26.38	86.85	5,615.21	2,162.71	-51.02	84.23	84.31	9.52	393,111.78	544,742.73
	5,657.00	29.02	85.80	5,643.54	2,191.04	-50.06	99.07	99.15	8.39	393,112.74	544,757.57
	5,689.00	32.62	86.11	5,671.02	2,218.52	-48.90	115.42	115.50	11.26	393,113.90	544,773.92
	5,721.00	37.28	86.67	5,697.24	2,244.74	-47.75	133.71	133.79	14.60	393,115.05	544,792.21
	5,752.00	41.15	87.09	5,721.26	2,268.76	-46.69	153.28	153.36	12.51	393,116.11	544,811.78
	5,784.00	44.85	87.57	5,744.66	2,292.16	-45.68	175.07	175.15	11.61	393,117.12	544,833.57
	5,816.00	47.57	87.96	5,766.80	2,314.30	-44.78	198.15	198.23	8.55	393,118.02	544,856.65
	5,847.00	51.18	88.67	5,786.98	2,334.48	-44.09	221.67	221.74	11.77	393,118.71	544,880.17



Pathfinder

Pathfinder X & Y Survey Report



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Project:	Eddy County	TVD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Site:	Osprey "BPS" State	MD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc. (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)
	5,879.00	55.13	90.06	5,806.17	2,353.67	-43.82	247.27	247.34	12.82	393,118.98	544,905.77
	5,911.00	58.74	92.58	5,823.62	2,371.12	-44.45	274.07	274.15	13.07	393,118.35	544,932.57
	5,930.00	60.76	93.46	5,833.19	2,380.69	-45.31	290.46	290.54	11.36	393,117.49	544,948.96
	5,960.00	64.90	94.76	5,846.89	2,394.39	-47.23	317.07	317.16	14.33	393,115.57	544,975.57
	5,991.00	68.85	94.73	5,859.06	2,406.56	-49.59	345.48	345.57	12.74	393,113.21	545,003.98
	6,023.00	70.61	94.79	5,870.15	2,417.65	-52.08	375.39	375.48	5.50	393,110.72	545,033.89
	6,054.00	72.37	94.55	5,879.99	2,427.49	-54.47	404.69	404.78	5.72	393,108.33	545,063.19
	6,085.00	74.30	94.64	5,888.88	2,436.38	-56.85	434.29	434.39	6.23	393,105.95	545,092.79
	6,116.00	76.06	94.64	5,896.81	2,444.31	-59.27	464.16	464.26	5.68	393,103.53	545,122.66
	6,147.00	77.82	95.06	5,903.81	2,451.31	-61.83	494.25	494.36	5.83	393,100.97	545,152.75
	6,178.00	79.84	94.94	5,909.82	2,457.32	-64.48	524.54	524.66	6.53	393,098.32	545,183.04
	6,209.00	81.34	94.87	5,914.89	2,462.39	-67.09	555.01	555.13	4.84	393,095.71	545,213.51
	6,240.00	83.01	94.68	5,919.11	2,466.61	-69.65	585.62	585.74	5.42	393,093.15	545,244.12
	6,271.00	84.94	94.65	5,922.36	2,469.86	-72.16	616.34	616.47	6.23	393,090.64	545,274.84
	6,302.00	86.88	94.41	5,924.57	2,472.07	-74.60	647.17	647.30	6.31	393,088.20	545,305.67
	6,396.00	91.89	93.32	5,925.58	2,473.08	-80.93	740.92	741.06	5.45	393,081.87	545,399.42
	6,489.00	91.80	93.31	5,922.59	2,470.09	-86.31	833.71	833.86	0.10	393,076.49	545,492.21
	6,583.00	91.80	93.98	5,919.63	2,467.13	-92.28	927.48	927.64	0.71	393,070.52	545,585.98
	6,667.00	91.71	93.49	5,917.06	2,464.56	-97.75	1,011.26	1,011.43	0.59	393,065.05	545,669.76
	6,769.00	91.80	92.48	5,913.94	2,461.44	-103.06	1,113.07	1,113.25	0.99	393,059.74	545,771.57
	6,865.00	91.71	92.22	5,911.00	2,458.50	-106.99	1,208.94	1,209.13	0.29	393,055.81	545,867.44
	6,957.00	90.40	90.93	5,909.30	2,456.80	-109.52	1,300.89	1,301.08	2.00	393,053.28	545,959.39
	7,050.00	90.04	90.13	5,908.95	2,456.45	-110.38	1,393.88	1,394.07	0.94	393,052.42	546,052.38
	7,144.00	89.87	90.18	5,909.02	2,456.52	-110.63	1,487.88	1,488.07	0.19	393,052.17	546,146.38
	7,237.00	90.04	90.22	5,909.09	2,456.59	-110.96	1,580.88	1,581.07	0.19	393,051.84	546,239.38
	7,331.00	90.66	90.22	5,908.52	2,456.02	-111.32	1,674.88	1,675.07	0.66	393,051.48	546,333.38
	7,378.00	90.84	89.92	5,907.90	2,455.40	-111.38	1,721.88	1,722.07	0.74	393,051.42	546,380.38



Pathfinder

Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Site:	Osprey "BPS" State	MD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	7,424.00	90.75	90.01	5,907.27	2,454.77	-111.35	1,767.87	1,768.06	0.28	393,051.45	546,426.37
	7,518.00	90.57	90.32	5,906.18	2,453.68	-111.62	1,861.86	1,862.06	0.38	393,051.18	546,520.36
	7,611.00	90.40	89.75	5,905.40	2,452.90	-111.68	1,954.86	1,955.05	0.64	393,051.12	546,613.36
	7,704.00	90.40	89.56	5,904.75	2,452.25	-111.12	2,047.86	2,048.05	0.20	393,051.68	546,706.36
	7,797.00	89.78	89.32	5,904.60	2,452.10	-110.21	2,140.85	2,141.04	0.71	393,052.59	546,799.35
	7,891.00	88.64	88.93	5,905.90	2,453.40	-108.77	2,234.83	2,235.02	1.28	393,054.03	546,893.33
	7,985.00	90.13	89.83	5,906.91	2,454.41	-107.76	2,328.82	2,329.00	1.85	393,055.04	546,987.32
	8,078.00	89.60	89.61	5,907.12	2,454.62	-107.30	2,421.81	2,422.00	0.62	393,055.50	547,080.31
	8,171.00	88.99	90.47	5,908.27	2,455.77	-107.37	2,514.81	2,514.99	1.13	393,055.43	547,173.31
	8,265.00	89.87	89.82	5,909.20	2,456.70	-107.60	2,608.80	2,608.98	1.16	393,055.20	547,267.30
	8,358.00	88.26	89.61	5,910.72	2,458.22	-107.14	2,701.78	2,701.97	1.75	393,055.66	547,360.28
	8,451.00	88.64	89.14	5,913.24	2,460.74	-106.13	2,794.74	2,794.92	0.65	393,056.67	547,453.24
	8,544.00	89.34	88.80	5,914.88	2,462.38	-104.46	2,887.71	2,887.89	0.84	393,058.34	547,546.21
	8,636.00	87.14	88.38	5,917.70	2,465.20	-102.19	2,979.64	2,979.81	2.43	393,060.61	547,638.14
	8,757.00	88.90	89.70	5,921.88	2,469.38	-100.17	3,100.54	3,100.71	1.82	393,062.63	547,759.04
	8,850.00	88.20	89.45	5,924.24	2,471.74	-99.48	3,193.51	3,193.67	0.80	393,063.32	547,852.01
	8,943.00	89.69	88.69	5,925.95	2,473.45	-97.97	3,286.47	3,286.64	1.80	393,064.83	547,944.97
	9,037.00	89.87	88.17	5,926.31	2,473.81	-95.39	3,380.44	3,380.60	0.59	393,067.41	548,038.94
	9,131.00	89.34	88.22	5,926.96	2,474.46	-92.43	3,474.39	3,474.54	0.57	393,070.37	548,132.89
	9,224.00	88.81	88.04	5,928.46	2,475.96	-89.40	3,567.33	3,567.48	0.60	393,073.40	548,225.83
	9,318.00	89.34	86.79	5,929.98	2,477.48	-85.16	3,661.22	3,661.36	1.44	393,077.64	548,319.72
	9,412.00	89.69	87.02	5,930.77	2,478.27	-80.09	3,755.08	3,755.21	0.45	393,082.71	548,413.58
	9,505.00	89.69	87.27	5,931.27	2,478.77	-75.45	3,847.96	3,848.09	0.27	393,087.35	548,506.46
	9,599.00	89.25	87.12	5,932.14	2,479.64	-70.85	3,941.84	3,941.96	0.49	393,091.95	548,600.34
	9,692.00	88.29	86.54	5,934.14	2,481.64	-65.71	4,034.68	4,034.79	1.21	393,097.09	548,693.18
	9,786.00	88.90	86.77	5,936.45	2,483.95	-60.23	4,128.49	4,128.59	0.69	393,102.57	548,786.99
	9,879.00	89.25	86.88	5,937.95	2,485.45	-55.08	4,221.33	4,221.42	0.39	393,107.72	548,879.83



Pathfinder

Pathfinder X & Y Survey Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Site:	Osprey "BPS" State	MD Reference:	Silver Oak 10 @ 3452.50ft (18.5' KB Correction)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Easting (ft)
9,972.00	89.78	86.57	5,938.73	2,486.23	-49.77	4,314.18	4,314.26	0.66	393,113.03
10,065.00	89.87	86.60	5,939.02	2,486.52	-44.23	4,407.01	4,407.08	0.10	393,118.57
10,173.00	89.34	86.65	5,939.76	2,487.26	-37.87	4,514.82	4,514.88	0.49	393,124.93
10,255.00	89.34	86.65	5,940.71	2,488.21	-33.08	4,596.68	4,596.73	0.00	393,129.72
BHL-10255.00°MD, 89.34°INC, 86.65°AZI, 5940.71°TVD, 4596.73°VS, -33.08°N, 4596.68°E									

Targets					
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)
- hit/miss target	0.00	0.00	5,900.00	-7.97	4,637.17
- Shape					
PBHL(OSPREY#1)	0.00	0.00	5,900.00	-7.97	4,637.17
- survey misses target center by 62.67ft at 10255.00ft MD (5940.71°TVD, -33.08°N, 4596.68°E)					
- Point					

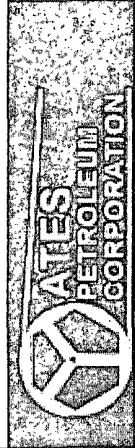
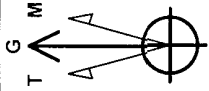
Survey Annotations			
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/S (ft)	+E/W (ft)
10,255.00	5,940.71	-33.08	4,596.68
Comment: BHL-10255.00°MD, 89.34°INC, 86.65°AZI, 5940.71°TVD, 4596.73°VS, -33.08°N, 4596.68°E			

Checked By: _____	Approved By: _____	Date: _____
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PATHFINDER

Project: Eddy County
Site: Osprey "BPS" Stat
Well: #1H
Wellbore: OH
Plan: Plan #2 (#1H/OH)

Azimuths to Grid North
True North: -0.01°
Magnetic North: 8.04°
Magnetic Field
Strength: 48573.3snT
Dip Angle: 59.94°
Date: 05/30/2010
Model: IGRF2010

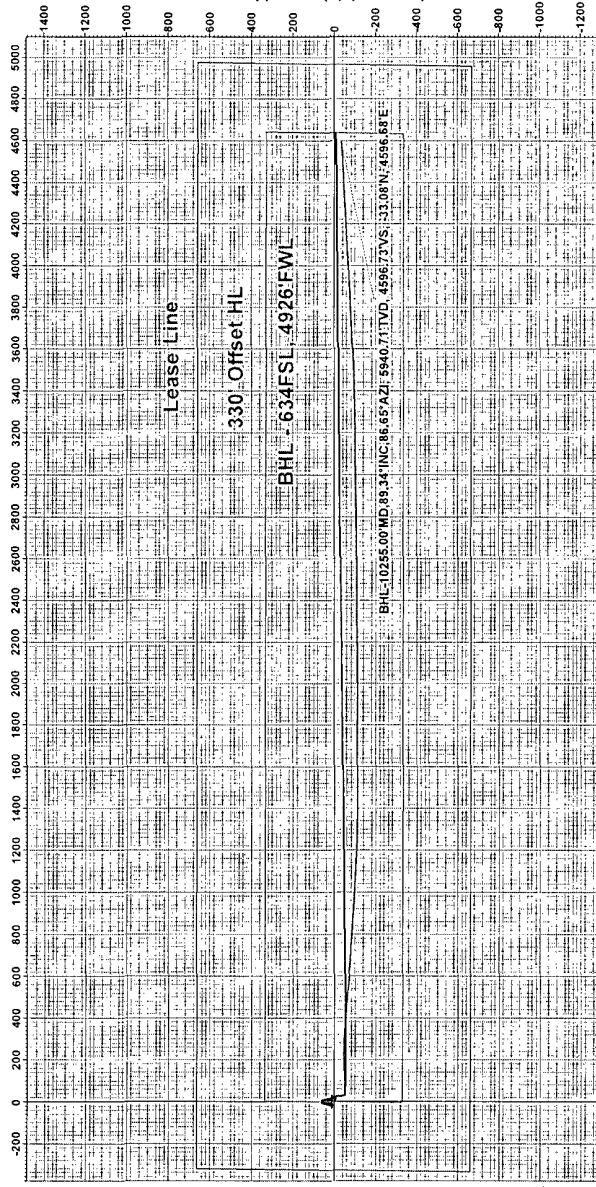


PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	TFace	VSec	Target
1	5417.00	1.14	143.09	5416.35	-50.25	29.06	0.00	29.15	
2	5429.00	1.14	143.09	5428.35	-50.44	29.20	0.00	29.29	
3	6173.17	90.00	89.38	5900.00	-52.84	506.55	12.00	-53.72	506.64
4	10304.03	90.00	89.38	5900.00	-8.14	4637.17	0.00	0.00	4637.18

South(-)/North(+) (200 ft/in)

West(-)/East(+) (200 ft/in)



WELL DETAILS: #1H					
Ground Elevation: 3434.00					
RKB Elevation: Silver Oak 10 @ 3452.50ft (18.5' KB Correction)					
Rig Name: 18.5' KB Correction					
+N/S	+E/W	Northing	Easting	Latitude	Longitude
0.00	0.00	393182.800	544658.500	32° 4' 51.181 N	104° 19' 21.398 W
Slot					

WELLBORE TARGET DETAILS (MAP COORDINATES)					
Name	TVD	+N/S	+E/W	Northing	Easting
PBHL(OSPREF#1)	5900.00	-7.97	4637.17	393154.830	549285.670
Shape					Point

Plan: Plan #2 (#1H/OH)
Created By: Nate Bingham
Checked: _____
Date: 8.40, June 14, 2010
Date: _____

