

Submit To Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-105
Revised March 25, 1999

WELL API NO. 30-015-32773

5. Indicate Type of Lease
STATE ☐ FEE ☐

State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐ Directional ☐ Horizontal ☐

b. Type of Completion:
NEW ☒ WORK ☐ PLUG ☐ DIFF ☐
WELL OVER ☐ DEEPEN ☐ BACK RESER ☐

2. Name of Operator
Southwestern Energy Production Company

3. Address of Operator
2350 N. Sam Houston Parkway East, Suite 300 - Houston, TX 77032

4. Well Location

Unit Letter C 780 Feet From The N Line and 2610 Feet From The W Line

Section 10 Township 25S Range 28E NMPM Eddy County

10. Date Spudded 05/10/03 11. Date T.D. Reached 05/28/03 12. Date Compl. (Ready to Prod.) 06/27/03 13. Elevations (DF& RKB, RT, GR, etc.) 2,969' GR 14. Elev. Casinghead 18'

15. Total Depth 6,865' 16. Plug Back T.D. 6,865' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By 0-6,865' Rotary Tools Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 5,175-6,865' MD Delaware - Horizontal Open Hole 20. Was Directional Survey Made Yes

21. Type Electric and Other Logs Run

Gamma Ray

21. Was Well Cored
No

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'		9 sx ready mix	
9-5/8"	36#	575'	12-1/4"	269 sx	
7"	23#	5,175'	8 3/4"	215 sx	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-7/8"	4,354'	

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL 5,260-6,220 AMOUNT AND KIND MATERIAL USED 20/40 Super LC Sand

28. PRODUCTION

Date First Production 6/8/03 Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping - 1-3/4" Pump Well Status (Prod. or Shut-in) Prod.

Date of Test 6/30/03 Hours Tested 24 Choke Size Open Prod'n For Test Period Oil - Bbl 69 Gas - MCF 53 Water - Bbl. 272 Gas - Oil Ratio 768

Flow Tubing Press. 100 Casing Pressure 40 psi Calculated 24-Hour Rate Oil - Bbl. 69 Gas - MCF 53 Water - Bbl. 272 Oil Gravity - API - (Corr.) 37

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

30. List Attachments

Deviation report, Survey report, Gamma Ray Log & Mud Log

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

Signature [Signature] Printed Name Vonnie J. Cermin Title Drilling/Production Technician Date 7/3/03

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. It 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 completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy	T. Canyon
T. Salt	T. Strawn
B. Salt	T. Atoka
T. Yates	T. Miss
T. 7 Rivers	T. Devonian
T. Queen	T. Silurian
T. Grayburg	T. Montoya
T. San Andres	T. Simpson
T. Glorieta	T. McKee
T. Paddock	T. Ellenburger
T. Blinbry	T. Gr. Wash
T. Tubb	T. Delaware Sand 2640
T. Drinkard	T. Bone Springs
T. Abo	T. Bell Canyon 2640
T. Wolfcamp	T. Cherry Canyon 3300
T. Penn	T. Cherry Canyon 6 5150
T. Cisco (Bough C)	T.

Northwestern New Mexico

T. Ojo Alamo	T. Penn. "B"
T. Kirtland-Fruitland	T. Penn. "C"
T. Pictured Cliffs	T. Penn. "D"
T. Cliff House	T. Leadville
T. Menefee	T. Madison
T. Point Lookout	T. Elbert
T. Mancos	T. McCracken
T. Gallup	T. Ignacio Otzte
Base Greenhorn	T. Granite
T. Dakota	T.
T. Morrison	T.
T. Todilto	T.
T. Entrada	T.
T. Wingate	T.
T. Chinle	T.
T. Permian	T.
T. Penn "A"	Did not start mud log until 2159'

OIL OR GAS SANDS OR ZONES

No. 1, from.....5150.....to.....6865.....
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
2400	2560	160	Anhydrite & Limestone				
1450	2340	80	Anhydrite, Limestone & Shale				
2640	3560	920	Limestone, Shale & Sandstone				
3560	4250	690	Anhydrite, Limestone, Shale, Sandstone & Dolomite				
4250	490	700	Limestone, Shale & Sandstone				
4950	6865	1915	Limestone, Shale, Sandstone, Siltstone				

OPERATOR: SOUTHWESTERN ENERGY PROD. CO.
WELL/LEASE: REDTAILED HAWK 10-H #1
COUNTY: EDDY

141-0022

STATE OF NEW MEXICO
DEVIATION REPORT

248	3/4
548	1
812	2
940	2 1/4
1,066	2
1,192	1
1,508	1 1/4
1,728	2 1/4
1,918	1
2,107	3/4
2,418	1 1/4
2,701	1
3,017	3/4
3,308	3/4
3,747	1 1/4
4,221	1



By. *Steve Moore*

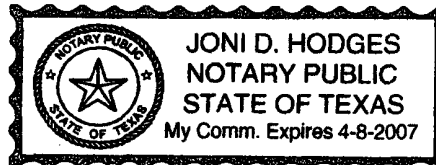
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 4th day of June, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007



A Gyrodata Directional Survey

for

SOUTHWESTERN ENERGY

Location: PATTERSON #141, EDDY CO., N.M.
Well: REDTAILED HAWK "10" 1-H, 4" DRILLPIPE

Job Number: MD0503GW182

Run Date: 5/15/2003 3:23:55 PM

Surveyor: Lee Adams Mike Martinez

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.149800 deg. N Longitude: 104.075300 deg. W

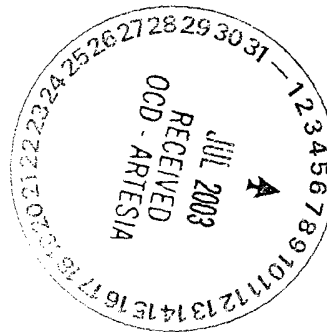
Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



A Gyrodata Directional Survey

SOUTHWESTERN ENERGY

Well: REDTAILED HAWK "10" 1-H, 4" DRILLPIPE

Location: PATTERSON #141, EDDY CO., N.M.

Job Number: MD0503GW182

MEASURED INCL DEPTH feet	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.0 0.0	0.00 N 0.00 E
0-3420' RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON/UTI #141 R.K.B.						
100.00	0.29	13.20	N 13 12 E	0.29	100.00 0.2 13.2	0.24 N 0.06 E
200.00	0.32	350.41	N 9 35 W	0.12	200.00 0.8 5.1	0.76 N 0.07 E
300.00	0.61	337.87	N 22 8 W	0.30	299.99 1.5 353.3	1.52 N 0.18 W
400.00	0.79	322.55	N 37 27 W	0.26	399.99 2.7 342.7	2.56 N 0.80 W
500.00	1.01	329.25	N 30 45 W	0.24	499.98 4.2 336.7	3.87 N 1.67 W
600.00	1.01	359.88	N 0 7 W	0.53	599.96 5.9 338.9	5.51 N 2.12 W
700.00	1.27	4.67	N 4 40 E	0.27	699.94 7.8 344.8	7.50 N 2.03 W
800.00	1.60	20.51	N 20 31 E	0.51	799.91 10.0 351.7	9.92 N 1.45 W
900.00	1.87	26.39	N 26 23 E	0.32	899.86 12.7 358.9	12.69 N 0.24 W
1000.00	1.87	26.41	N 26 25 E	0.00	999.81 15.7 4.5	15.62 N 1.22 E
1100.00	1.43	19.44	N 19 26 E	0.48	1099.77 18.4 7.4	18.26 N 2.36 E
1200.00	0.99	31.87	N 31 52 E	0.51	1199.75 20.4 9.1	20.17 N 3.23 E
1300.00	0.40	350.33	N 9 40 W	0.74	1299.74 21.6 9.7	21.25 N 3.63 E
1400.00	0.74	298.78	N 61 13 W	0.59	1399.73 22.1 7.8	21.91 N 3.00 E
1500.00	1.14	296.24	N 63 46 W	0.40	1499.72 22.7 3.9	22.66 N 1.54 E
1600.00	1.68	296.74	N 63 16 W	0.55	1599.69 23.8 358.4	23.76 N 0.66 W
1700.00	1.99	296.91	N 63 5 W	0.30	1699.64 25.5 352.1	25.21 N 3.52 W

505-910-2904

A Gyrodata Directional Survey

SOUTHWESTERN ENERGY

Well: REDTAILED HAWK "10" 1-H, 4" DRILLPIPE

Location: PATTERSON #141, EDDY CO., N.M.

Job Number: MD0503GW182

MEASURED INCL DEPTH feet	deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1800.00	1.46	295.37	N 64 38 W	0.53	1799.59	27.3 346.8	26.54 N 6.22 W
1900.00	0.88	312.87	N 47 8 W	0.68	1899.57	28.7 344.0	27.61 N 7.94 W
2000.00	0.69	331.11	N 28 54 W	0.31	1999.56	30.0 343.0	28.66 N 8.79 W
2100.00	0.85	66.78	N 66 47 E	1.15	2099.56	30.6 344.1	29.47 N 8.39 W
2200.00	1.59	81.66	N 81 40 E	0.79	2199.53	30.6 348.1	29.97 N 6.34 W
2300.00	2.01	85.12	N 85 7 E	0.43	2299.48	30.5 353.9	30.32 N 3.23 W
2400.00	1.72	76.85	N 76 51 E	0.39	2399.43	30.8 360.0	30.81 N 0.02 W
2500.00	0.96	56.45	N 56 27 E	0.89	2499.40	31.7 3.9	31.61 N 2.14 E
2600.00	0.67	30.48	N 30 29 E	0.46	2599.39	32.7 5.5	32.58 N 3.13 E
2700.00	0.66	23.61	N 23 37 E	0.08	2699.39	33.8 6.2	33.61 N 3.66 E
2800.00	0.48	26.50	N 26 30 E	0.19	2799.38	34.8 6.7	34.52 N 4.08 E
2900.00	0.34	9.93	N 9 56 E	0.18	2899.38	35.4 7.0	35.18 N 4.31 E
3000.00	0.48	6.85	N 6 51 E	0.14	2999.38	36.2 7.0	35.88 N 4.41 E
3100.00	0.46	350.58	N 9 25 W	0.13	3099.37	36.9 6.8	36.69 N 4.40 E
3200.00	0.37	305.49	N 54 30 W	0.33	3199.37	37.5 6.2	37.27 N 4.07 E
3300.00	0.58	304.35	N 55 39 W	0.21	3299.37	37.9 5.1	37.74 N 3.39 E
3400.00	0.68	296.40	N 63 36 W	0.13	3399.36	38.4 3.6	38.29 N 2.43 E
3420.00	0.71	295.80	N 64 12 W	0.15	3419.36	38.5 3.3	38.40 N 2.21 E

Final Station Closure: Distance: 38.47 ft Az: 3.30 deg.

RC Costello

505-910-2904



DIRECTIONAL SURVEY REPORT

SOUTHWESTERN ENERGY

REDDTAILED HAWK 10 #1-H

EDDY COUNTY, NEW MEXICO

PREPARED BY: DAVID M. YOUNG

PathFinder Energy Services, Inc.
3329 West Pinhook Road, Lafayette, LA 70508
(337) 233-3982

June 5, 2003

SOUTHWESTERN ENERGY
2350 N. Sam Houston Parkway E., Suite 300
Houston, TX 77032

Attn: Rick Vasquez

RE: SOUTHWESTERN ENERGY
REDTAILED HAWK 10 #1-H
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #141
OUR FILE NO.: J-WT-0305-0011

Dear Sir:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

SURVEY DATA

- 1 - Original survey report**
- 2 - Survey report copies**

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,



David M. Young
Service Coordinator
PathFinder Energy Services

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: A) TODD WELLS
B) JASON WAYMIRE
C) JOSH DEMORY
3. POSITION OF SAID PERSON(S): (A-C) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05/17/03 TO 05/27/03
5. STATE IN WHICH SURVEY WAS PERFORMED: LAND, NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NEW MEXICO
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

SOUTHWESTERN ENERGY
REDDTAILED HAWK 10 #1-H
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #141
9. SURVEY CERTIFIED FROM: 3,572 TO 6,821 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 2,281.04 FEET ON A BEARING OF 275.88 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT PROJECTED MEASURED DEPTH OF 6,865 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


DAVID M. YOUNG
SERVICE COORDINATOR

PATHFINDER ENERGY SERVICES

BHL Report

Page 1
Job No: J-WT-0305-0011

Date: 5/27/03

Time: 10:56 pm

Wellpath ID: REDTAILED HAWK 10

Date Created: 5/16/03

Last Revision: 5/27/03

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.6

Vertical Section Plane: 276.00 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

SOUTHWESTERN ENERGY & PRODUCTION CO.
REDDAILED HAWK 10 #1-H
EDDY COUNTY, NM
RIG: PATTERSON #141

DECL: 8.75° EAST TO GRID NORTH
RKB: 18' ROTARY TO GROUND

PATHFINDER OFFICE SUPERVISOR
RON WELCH
PATHFINDER FIELD ENGINEERS
JOSH DEMORY / TODD WELLS
JASON WAYMIRE

Measured Depth	6865.00	(ft)
Inclination	90.66	(deg)
Azimuth	272.25	(deg)
True Vertical Depth	4805.16	(ft)
Vertical Section	2281.04	(ft)
Rectangular Offsets		
North/South	233.62 N	(ft)
East/West	2269.05 W	(ft)
Closure Dist & Dir	2281.04 @ 275.88	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

PATHFINDER ENERGY SERVICES

Survey Report

Page 1

Job No: J-WT-0305-0011

Date: 5/27/03

Time: 10:51 pm

Wellpath ID: REDTAILED HAWK 10

Date Created: 5/16/03

Last Revision: 5/27/03

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.6

Vertical Section Plane: 276.00 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

SOUTHWESTERN ENERGY & PRODUCTION CO.
REDDTAILED HAWK 10 #1-H
EDDY COUNTY, NM
RIG: PATTERSON #141

DECL: 8.75° EAST TO GRID NORTH
RKB: 18° ROTARY TO GROUND

PATHFINDER OFFICE SUPERVISOR
RON WELCH
PATHFINDER FIELD ENGINEERS
JOSH DEMORY / TODD WELLS
JASON WAYMIRE

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. (ft)	Dir. (deg.)	DLS (dg/100ft)
TIED INTO GYRODATA GYRO SURVEY @ 3420' MD										
3420.00	0.71	295.80	3419.36	0.00	1.82	38.40 N	2.21 E	38.46@	3.29	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
3572.00	1.14	292.90	3571.34	152.00	4.15	39.40 N	0.03W	39.40@	359.96	0.28
3761.00	1.23	289.74	3760.30	189.00	7.92	40.82 N	3.67W	40.98@	354.86	0.06
3950.00	1.14	280.68	3949.26	189.00	11.76	41.85 N	7.43W	42.50@	349.93	0.11
4140.00	1.06	275.06	4139.22	190.00	15.40	42.35 N	11.04W	43.77@	345.39	0.07
4297.00	0.88	268.82	4296.20	157.00	18.05	42.46 N	13.69W	44.61@	342.13	0.13
4329.00	1.32	269.79	4328.20	32.00	18.66	42.45 N	14.30W	44.80@	341.38	1.38
4360.00	3.61	273.12	4359.16	31.00	19.99	42.50 N	15.63W	45.29@	339.80	7.40
4392.00	7.74	272.73	4391.00	32.00	23.15	42.66 N	18.79W	46.62@	336.22	12.91
4424.00	12.84	270.75	4422.48	32.00	28.85	42.81 N	24.51W	49.33@	330.21	15.97
4455.00	17.67	271.28	4452.38	31.00	36.97	42.96 N	32.66W	53.96@	322.76	15.59
4487.00	21.28	272.51	4482.54	32.00	47.61	43.32 N	43.32W	61.26@	315.00	11.35
4518.00	24.53	272.95	4511.09	31.00	59.65	43.90 N	55.37W	70.66@	308.41	10.50
4550.00	28.58	273.04	4539.71	32.00	73.94	44.65 N	69.65W	82.73@	302.66	12.66
4581.00	32.27	271.98	4566.44	31.00	89.60	45.33 N	85.33W	96.62@	297.98	12.03
4613.00	36.23	269.87	4592.88	32.00	107.53	45.60 N	103.33W	112.95@	293.81	12.92
4644.00	39.66	268.47	4617.33	31.00	126.46	45.32 N	122.39W	130.51@	290.32	11.41
4676.00	42.21	268.20	4641.50	32.00	147.23	44.71 N	143.35W	150.16@	287.32	7.99
4707.00	45.11	268.47	4663.92	31.00	168.44	44.09 N	164.74W	170.53@	284.98	9.37
4739.00	48.72	268.82	4685.78	32.00	191.62	43.54 N	188.10W	193.07@	283.03	11.31
4770.00	51.97	269.43	4705.56	31.00	215.31	43.17 N	211.96W	216.31@	281.51	10.59

PATHFINDER ENERGY SERVICES

Page 2

Date: 5/27/03

Survey Report

Wellpath ID: REDTAILED HAWK 10

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
4802.00	55.13	270.58	4724.57	32.00	240.91	43.18 N	237.69W	241.58@280.30	10.29
4833.00	58.74	271.19	4741.48	31.00	266.78	43.59 N	263.67W	267.24@279.39	11.76
4865.00	62.26	271.37	4757.23	32.00	294.53	44.21 N	291.51W	294.84@278.62	11.01
4896.00	65.86	271.10	4770.79	31.00	322.31	44.81 N	319.37W	322.50@277.99	11.64
4928.00	69.47	271.72	4782.95	32.00	351.81	45.54 N	348.96W	351.92@277.43	11.42
4960.00	73.07	272.42	4793.22	32.00	382.03	46.63 N	379.24W	382.05@277.01	11.44
4991.00	75.62	272.77	4801.59	31.00	411.83	47.99 N	409.05W	411.86@276.69	8.30
5023.00	78.96	273.74	4808.63	32.00	443.00	49.76 N	440.21W	443.02@276.45	10.85
5054.00	80.02	274.09	4814.28	31.00	473.46	51.84 N	470.62W	473.47@276.29	3.60
5086.00	80.64	274.36	4819.66	32.00	504.99	54.17 N	502.08W	505.00@276.16	2.11
5117.00	82.13	274.62	4824.30	31.00	535.63	56.57 N	532.64W	535.63@276.06	4.88
5212.00	88.11	277.78	4832.38	95.00	630.23	66.79 N	626.68W	630.23@276.08	7.11
5243.00	89.69	277.43	4832.98	31.00	661.21	70.90 N	657.40W	661.22@276.16	5.22
5275.00	89.96	277.70	4833.08	32.00	693.20	75.11 N	689.13W	693.21@276.22	1.19
5306.00	90.92	277.78	4832.84	31.00	724.19	79.28 N	719.84W	724.19@276.29	3.11
5338.00	93.47	278.05	4831.61	32.00	756.14	83.69 N	751.51W	756.16@276.35	8.01
5369.00	93.74	277.78	4829.66	31.00	787.06	87.95 N	782.15W	787.08@276.42	1.23
5401.00	93.91	278.49	4827.53	32.00	818.97	92.46 N	813.76W	819.00@276.48	2.28
5431.00	94.00	278.57	4825.46	30.00	848.87	96.90 N	843.36W	848.91@276.55	0.40
5462.00	94.09	278.66	4823.27	31.00	879.76	101.54 N	873.93W	879.81@276.63	0.41
5493.00	92.33	278.84	4821.54	31.00	910.67	106.24 N	904.52W	910.74@276.70	5.71
5525.00	92.33	278.66	4820.23	32.00	942.61	111.11 N	936.12W	942.70@276.77	0.56
5557.00	92.42	278.84	4818.91	32.00	974.55	115.97 N	967.73W	974.65@276.83	0.63
5588.00	92.42	279.10	4817.60	31.00	1005.48	120.80 N	998.32W	1005.60@276.90	0.84
5619.00	92.77	279.36	4816.20	31.00	1036.40	125.77 N	1028.89W	1036.54@276.97	1.41
5651.00	92.95	279.28	4814.60	32.00	1068.30	130.94 N	1060.42W	1068.48@277.04	0.62
5683.00	91.80	277.34	4813.27	32.00	1100.25	135.56 N	1092.06W	1100.44@277.08	7.04
5715.00	91.98	276.38	4812.22	32.00	1132.23	139.38 N	1123.81W	1132.42@277.07	3.05
5746.00	90.57	275.76	4811.53	31.00	1163.22	142.66 N	1154.63W	1163.41@277.04	4.97
5778.00	90.84	276.64	4811.13	32.00	1195.21	146.12 N	1186.44W	1195.40@277.02	2.88
5810.00	88.20	275.85	4811.40	32.00	1227.21	149.60 N	1218.25W	1227.40@277.00	8.61
5842.00	86.26	275.32	4812.95	32.00	1259.17	152.71 N	1250.05W	1259.35@276.96	6.28
5873.00	85.56	275.94	4815.16	31.00	1290.09	155.74 N	1280.83W	1290.26@276.93	3.01
5905.00	87.49	276.11	4817.10	32.00	1322.03	159.09 N	1312.59W	1322.20@276.91	6.05
5936.00	87.67	275.50	4818.41	31.00	1353.00	162.23 N	1343.40W	1353.16@276.89	2.05
5968.00	89.69	275.94	4819.15	32.00	1384.99	165.41 N	1375.23W	1385.15@276.86	6.46
6000.00	90.22	275.94	4819.17	32.00	1416.99	168.73 N	1407.06W	1417.14@276.84	1.66
6032.00	91.88	276.38	4818.58	32.00	1448.98	172.16 N	1438.87W	1449.13@276.82	5.37
6063.00	92.15	276.20	4817.49	31.00	1479.96	175.55 N	1469.66W	1480.11@276.81	1.05
6095.00	90.57	276.11	4816.74	32.00	1511.95	178.98 N	1501.47W	1512.10@276.80	4.95
6126.00	90.22	275.50	4816.52	31.00	1542.95	182.12 N	1532.31W	1543.09@276.78	2.27
6158.00	90.40	275.76	4816.35	32.00	1574.95	185.26 N	1564.16W	1575.09@276.75	0.99

PATHFINDER ENERGY SERVICES

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Date: 5/27/03

Survey Report

Wellpath ID: REDTAILED HAWK 10

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
6190.00	90.66	275.59	4816.05	32.00	1606.95	188.42 N	1596.00W	1607.08@276.73	0.97
6222.00	90.48	275.50	4815.73	32.00	1638.95	191.51 N	1627.85W	1639.07@276.71	0.63
6253.00	90.22	275.94	4815.54	31.00	1669.95	194.60 N	1658.69W	1670.07@276.69	1.65
6285.00	89.96	275.85	4815.49	32.00	1701.95	197.89 N	1690.52W	1702.06@276.68	0.86
6316.00	89.78	276.20	4815.56	31.00	1732.95	201.14 N	1721.35W	1733.06@276.66	1.27
6348.00	90.13	275.94	4815.59	32.00	1764.95	204.53 N	1753.17W	1765.06@276.65	1.36
6380.00	91.98	275.59	4815.00	32.00	1796.94	207.74 N	1785.00W	1797.05@276.64	5.88
6411.00	92.33	275.32	4813.83	31.00	1827.91	210.69 N	1815.84W	1828.02@276.62	1.43
6443.00	92.51	274.88	4812.48	32.00	1859.88	213.53 N	1847.68W	1859.98@276.59	1.48
6474.00	92.42	274.27	4811.15	31.00	1890.84	216.00 N	1878.56W	1890.93@276.56	1.99
6506.00	92.24	273.83	4809.85	32.00	1922.80	218.26 N	1910.45W	1922.88@276.52	1.48
6537.00	91.89	273.21	4808.73	31.00	1953.75	220.16 N	1941.37W	1953.82@276.47	2.30
6569.00	91.36	272.60	4807.82	32.00	1985.69	221.78 N	1973.32W	1985.74@276.41	2.52
6600.00	91.10	272.69	4807.16	31.00	2016.63	223.21 N	2004.28W	2016.67@276.35	0.89
6631.00	91.98	272.16	4806.33	31.00	2047.56	224.52 N	2035.24W	2047.58@276.30	3.31
6663.00	89.34	271.98	4805.96	32.00	2079.48	225.68 N	2067.21W	2079.49@276.23	8.27
6694.00	89.52	271.81	4806.27	31.00	2110.40	226.70 N	2098.19W	2110.41@276.17	0.80
6726.00	90.04	272.42	4806.39	32.00	2142.32	227.88 N	2130.17W	2142.33@276.11	2.50
6758.00	90.48	272.51	4806.24	32.00	2174.26	229.26 N	2162.14W	2174.26@276.05	1.40
6789.00	90.48	272.42	4805.98	31.00	2205.20	230.59 N	2193.11W	2205.20@276.00	0.29
6821.00	90.66	272.25	4805.67	32.00	2237.13	231.90 N	2225.08W	2237.13@275.95	0.77
STRAIGHT LINE PROJECTION TO BIT @ 6865' MD									
6865.00	90.66	272.25	4805.16	44.00	2281.04	233.62 N	2269.05W	2281.04@275.88	0.00