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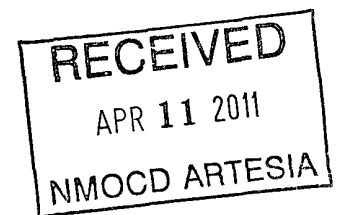
30-015-37966

DIRECTIONAL SURVEY REPORT

DEVON ENERGY

NORTH PURE GOLD 8 FEDERAL #14H

EDDY COUNTY, NEW MEXICO



PREPARED BY: FRANCISCO SINISTERRA



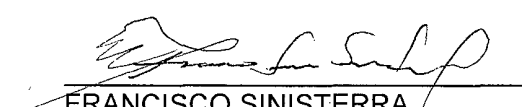
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) PRITHWISH DAS
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 09-21-10 TO 10-04-10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY
NORTH PURE GOLD 8 FEDERAL #14H
EDDY COUNTY, NM
RIG: H&P 416

9. SURVEY CERTIFIED FROM: 7945 TO 13145 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4812.41 FEET ON A BEARING OF 0.18 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 13195 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: 09/22/2010
Date Completed: 10/03/2010

DEVON ENERGY
N PURE GOLD 8 FED#14H
EDDY COUNTY COUNTY, NM
Rig:H&P 416
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers:P.DAS
C.HARDY

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.18.43.7607 N LON:103.47.48.5974 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 707081.4510 Y: 477709.4260
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.50° EAST TO GRID
Vertical Section Plane: 0.23
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude:3325.00' Ground To MSL

Measured Depth	13195.00	(feet)
Inclination	89.96	(deg)
Azimuth	0.08	(deg)
True Vertical Depth	8558.01	(feet)
Vertical Section	4812.41	(feet)
Survey X cord	707096.92	(feet)
Survey Y cord	482521.81	(feet)
Survey Lat	32.32538356 N	(deg)
Survey Lon	103.79670456 W	(deg)
Rectangular Corr. N/S	4812.39 N	(feet)
Rectangular Corr. E/W	15.47 E	(feet)
Closure Distance	4812.41	(feet)
Direction of Closure	0.18	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY

N PURE GOLD 8 FED#14H

EDDY COUNTY COUNTY, NM

Rig:H&P 416

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: P.DAS

C.HARDY

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.18.43.7607 N LON:103.47.48.5974 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 707081.4510 Y: 477709.4260

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.50° EAST TO GRID

Vertical Section Plane: 0.23

Survey Vert. Reference: 25.00' Rotary Table To Ground

Altitude:3325.00' Ground To MSL

Survey Calculations by RX5 V6.03B using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIED INTO SCIENTIFIC DRILLING GYRO @ 7867' MD.										
7867.00	1.35	185.14	7865.18	0.00	-77.97	78.17 S	50.85 E	93.25@	146.96	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
7945.00	1.49	5.30	7943.17	78.00	-77.87	78.08 S	50.86 E	93.18@	146.92	3.64
7977.00	4.40	7.59	7975.13	32.00	-76.24	76.44 S	51.06 E	91.93@	146.26	9.10
8008.00	7.03	7.85	8005.97	31.00	-73.18	73.39 S	51.48 E	89.64@	144.95	8.48
8040.00	10.99	7.68	8037.57	32.00	-68.21	68.42 S	52.15 E	86.03@	142.68	12.37
8071.00	14.07	5.74	8067.83	31.00	-61.53	61.74 S	52.93 E	81.32@	139.40	10.03
8103.00	16.18	4.16	8098.72	32.00	-53.21	53.42 S	53.64 E	75.70@	134.89	6.72
8134.00	18.99	3.28	8128.27	31.00	-43.86	44.08 S	54.24 E	69.89@	129.10	9.11
8166.00	21.72	2.93	8158.26	32.00	-32.74	32.96 S	54.84 E	63.99@	121.01	8.54
8197.00	24.18	2.14	8186.81	31.00	-20.67	20.89 S	55.37 E	59.18@	110.67	8.00
8228.00	26.73	0.82	8214.80	31.00	-7.35	7.57 S	55.71 E	56.22@	97.74	8.43
8260.00	29.81	1.26	8242.98	32.00	7.80	7.58 N	55.99 E	56.50@	82.29	9.65
8291.00	32.01	1.26	8269.57	31.00	23.72	23.50 N	56.34 E	61.04@	67.36	7.10
8323.00	34.73	0.29	8296.29	32.00	41.32	41.10 N	56.57 E	69.92@	54.00	8.66
8354.00	37.37	358.54	8321.36	31.00	59.56	59.34 N	56.37 E	81.85@	43.53	9.14
8386.00	40.27	358.10	8346.29	32.00	79.61	79.38 N	55.78 E	97.02@	35.10	9.10
8417.00	43.18	358.18	8369.42	31.00	100.22	100.00 N	55.11 E	114.19@	28.86	9.39
8449.00	45.90	358.54	8392.23	32.00	122.66	122.44 N	54.47 E	134.01@	23.98	8.54
8480.00	48.36	359.15	8413.32	31.00	145.37	145.15 N	54.02 E	154.88@	20.41	8.06
8512.00	50.74	359.12	8434.07	32.00	169.71	169.50 N	53.65 E	177.79@	17.56	7.44
8543.00	53.46	357.98	8453.12	31.00	194.16	193.95 N	53.03 E	201.07@	15.29	9.24
8574.00	55.93	358.30	8471.03	31.00	219.44	219.23 N	52.21 E	225.36@	13.39	8.01
8606.00	57.86	358.72	8488.51	32.00	246.23	246.03 N	51.51 E	251.36@	11.83	6.13
8637.00	60.23	358.81	8504.45	31.00	272.81	272.60 N	50.94 E	277.32@	10.58	7.65

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
N PURE GOLD 3 FED#14H
EDDY COUNTY COUNTY, NM
RIG:H&P 416

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS (dg/100ft)
						(ft)	(ft)	(ft)	(deg)	
8669.00	63.22	359.01	8519.61	32.00	300.98	300.78 N	50.40 E	304.97@	9.51	9.36
8699.00	65.95	358.94	8532.48	30.00	328.06	327.87 N	49.92 E	331.64@	8.66	9.10
8731.00	68.06	358.90	8544.98	32.00	357.51	357.32 N	49.36 E	360.71@	7.87	6.59
8762.00	70.08	359.58	8556.06	31.00	386.46	386.27 N	48.98 E	389.36@	7.23	6.83
8795.00	73.16	359.55	8566.46	33.00	417.77	417.58 N	48.74 E	420.41@	6.66	9.33
8826.00	75.97	359.92	8574.71	31.00	447.65	447.46 N	48.60 E	450.09@	6.20	9.14
8858.00	78.08	0.70	8581.89	32.00	478.83	478.64 N	48.77 E	481.12@	5.82	7.01
8889.00	79.32	0.77	8587.97	31.00	509.23	509.03 N	49.16 E	511.40@	5.52	4.01
8920.00	81.60	1.18	8593.11	31.00	539.79	539.60 N	49.68 E	541.88@	5.26	7.47
8951.00	85.12	1.24	8596.69	31.00	570.58	570.38 N	50.33 E	572.60@	5.04	11.36
8982.00	87.85	1.31	8598.59	31.00	601.51	601.31 N	51.02 E	603.47@	4.85	8.81
9013.00	90.13	1.03	8599.14	31.00	632.50	632.30 N	51.66 E	634.40@	4.67	7.41
9045.00	90.75	0.95	8598.89	32.00	664.50	664.29 N	52.21 E	666.34@	4.49	1.95
9140.00	92.15	359.24	8596.49	95.00	759.46	759.25 N	52.37 E	761.06@	3.95	2.33
9234.00	90.75	358.61	8594.11	94.00	853.40	853.21 N	50.60 E	854.70@	3.39	1.63
9329.00	91.54	358.46	8592.21	95.00	948.34	948.15 N	48.18 E	949.38@	2.91	0.85
9423.00	91.28	359.00	8589.90	94.00	1042.28	1042.10 N	46.09 E	1043.12@	2.53	0.64
9519.00	90.57	358.44	8588.35	96.00	1138.23	1138.06 N	43.95 E	1138.91@	2.21	0.94
9612.00	91.98	357.95	8586.28	93.00	1231.15	1230.99 N	41.02 E	1231.68@	1.91	1.60
9706.00	91.63	358.05	8583.32	94.00	1325.03	1324.89 N	37.74 E	1325.43@	1.63	0.39
9800.00	90.13	358.50	8581.87	94.00	1418.96	1418.83 N	34.91 E	1419.26@	1.41	1.67
9895.00	89.34	358.80	8582.31	95.00	1513.92	1513.80 N	32.67 E	1514.16@	1.24	0.89
9989.00	90.31	0.51	8582.60	94.00	1607.91	1607.80 N	32.11 E	1608.12@	1.14	2.09
10084.00	90.40	1.76	8582.01	95.00	1702.90	1702.78 N	33.99 E	1703.11@	1.14	1.32
10179.00	90.92	1.78	8580.92	95.00	1797.86	1797.72 N	36.92 E	1798.10@	1.18	0.55
10273.00	91.54	0.97	8578.90	94.00	1891.82	1891.67 N	39.18 E	1892.08@	1.19	1.08
10368.00	91.63	359.98	8576.27	95.00	1986.78	1986.63 N	39.97 E	1987.03@	1.15	1.05
10463.00	89.87	0.60	8575.03	95.00	2081.76	2081.62 N	40.45 E	2082.01@	1.11	1.96

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
N PURE GOLD 8 FED#14H
EDDY COUNTY COUNTY, NM
RIG:H&P 416

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS (dg/100ft)
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(dg/100ft)
10557.00	90.31	0.20	8574.88	94.00	2175.76	2175.62 N	41.10 E	2176.00@	1.08	0.63
10652.00	89.25	0.31	8575.25	95.00	2270.76	2270.61 N	41.53 E	2270.99@	1.05	1.12
10747.00	89.52	359.11	8576.26	95.00	2365.75	2365.60 N	41.05 E	2365.96@	0.99	1.29
10842.00	89.96	358.43	8576.70	95.00	2460.72	2460.58 N	39.01 E	2460.89@	0.91	0.85
10936.00	90.66	358.74	8576.19	94.00	2554.68	2554.55 N	36.68 E	2554.81@	0.82	0.81
11031.00	91.63	358.27	8574.29	95.00	2649.61	2649.50 N	34.21 E	2649.72@	0.74	1.14
11125.00	91.36	359.09	8571.84	94.00	2743.55	2743.44 N	32.04 E	2743.63@	0.67	0.92
11220.00	90.84	358.73	8570.01	95.00	2838.50	2838.40 N	30.24 E	2838.57@	0.61	0.67
11315.00	91.71	357.84	8567.90	95.00	2933.42	2933.34 N	27.39 E	2933.46@	0.54	1.31
11409.00	90.48	358.83	8566.10	94.00	3027.35	3027.28 N	24.66 E	3027.38@	0.47	1.68
11504.00	91.89	359.18	8564.14	95.00	3122.31	3122.24 N	23.01 E	3122.32@	0.42	1.53
11599.00	90.66	358.95	8562.02	95.00	3217.26	3217.20 N	21.46 E	3217.27@	0.38	1.32
11693.00	90.22	359.68	8561.30	94.00	3311.25	3311.19 N	20.34 E	3311.25@	0.35	0.91
11788.00	91.28	1.80	8560.06	95.00	3406.23	3406.17 N	21.57 E	3406.24@	0.36	2.50
11883.00	90.92	1.35	8558.24	95.00	3501.18	3501.11 N	24.18 E	3501.20@	0.40	0.61
11977.00	88.81	2.79	8558.46	94.00	3595.13	3595.05 N	27.57 E	3595.15@	0.44	2.72
12072.00	88.02	2.56	8561.08	95.00	3690.00	3689.90 N	32.00 E	3690.04@	0.50	0.87
12166.00	89.60	1.89	8563.04	94.00	3783.92	3783.81 N	35.65 E	3783.98@	0.54	1.82
12261.00	90.22	359.64	8563.19	95.00	3878.91	3878.80 N	36.92 E	3878.97@	0.55	2.46
12356.00	89.25	358.02	8563.63	95.00	3973.88	3973.77 N	34.98 E	3973.92@	0.50	1.99
12453.00	91.45	358.08	8563.03	97.00	4070.80	4070.71 N	31.68 E	4070.83@	0.45	2.27
12548.00	91.36	357.86	8560.70	95.00	4165.70	4165.62 N	28.32 E	4165.71@	0.39	0.25
12642.00	90.48	357.90	8559.19	94.00	4259.61	4259.54 N	24.84 E	4259.61@	0.33	0.94
12737.00	91.28	358.05	8557.73	95.00	4354.52	4354.47 N	21.48 E	4354.52@	0.28	0.86
12831.00	90.04	358.47	8556.65	94.00	4448.46	4448.42 N	18.63 E	4448.46@	0.24	1.39
12926.00	89.43	359.48	8557.09	95.00	4543.43	4543.40 N	16.93 E	4543.43@	0.21	1.24
13021.00	89.96	359.07	8557.60	95.00	4638.42	4638.39 N	15.73 E	4638.42@	0.19	0.71
13115.00	89.69	0.38	8557.88	94.00	4732.41	4732.39 N	15.28 E	4732.41@	0.18	1.42

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY
N PURE GOLD 8 FED#14H
EDDY COUNTY COUNTY, NM
RIG:H&P 416

Page 04/03

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)
13145.00	89.96	0.08	8557.98	30.00	4762.41	4762.39 N 15.40 E	4762.41@ 0.19	1.34
STRAIGHT-LINE PROJECTION TO BIT @ 13195' MD (8558' TVD).								
13195.00	89.96	0.08	8558.01	50.00	4812.41	4812.39 N 15.47 E	4812.41@ 0.18	0.00

FINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	DEVON ENERGY		
LEASE / WELL No.:	NORTH PURE GOLD 8	FEDERAL #14H	
WELL LOCATION:	EDDY COUNTY		
COUNTY / STATE / COUNTRY:	EDDY COUNTY	NM	USA
RIG:	H&P 416		
API WELL No:	30-015-37966		
JOB No:	700000322-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	PES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.5	LWD Calculated:	7.49
		Agreed Upon:	7.5
X =	707081.451000	Feet	Y = 477709.426000
			Feet
SITE LATITUDE:	32.312156 N	SITE LONGITUDE:	103.796833 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒ ZONE:		
PROPOSED DRIFT DIRECTION:	0.23		
KELLY BUSHING ELEVATION:			
ALTITUDE:	Feet	WATER DEPTH:	Feet

TIE-IN SURVEY

MEASURED DEPTH:	7867		
DRIFT ANGLE:	1.35		
DRIFT DIRECTION:	185.14		
TRUE VERTICAL DEPTH:	7865.18		
VERTICAL SECTION:	-77.97		
RECTANGULAR COORDINATE (N / S):	-78.17		
RECTANGULAR COORDINATE (E / W):	50.85		
CLOSURE DISTANCE / DIRECTION:	93.25	146.96	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	SCIENTIFIC DRILLING		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	7925	TOTAL DEPTH:	13140
KICKOFF ANGLE:	0	MAX ANGLE:	90.69

PES Engineers:

Perthwick La. Dos

**Signature of both field engineers required if applicable

Directional Driller:

Steffen

DATE: 09/20/10



October 20, 2010

Devon Energy
20 N. Broadway
Oklahoma City, OK

RE: Devon Energy
North Pure Gold 8 Federal #14H
API: 30-015-37966
Eddy County, NM
RIG: H & P 416
FIELD: Los Medanos; Bone Spring
PES FILE NO.: 700000322-WT-WT

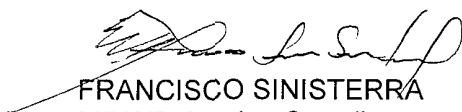
To whom it may concern:

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.

DIRECTIONAL 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 (432) 687-1647

Sincerely,



FRANCISCO SINISTERRA
M/LWD Service Coordinator
PathFinder Energy Services

ML:sh



PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

DEVON ENERGY
NORTH PURE GOLD 8 FEDERAL #14H
EDDY COUNTY, NEW MEXICO
Rig:HP 416

Fri Sep 17 16:45:25 2010

Coordinates

Latitude: 32.312156 N (32 deg. 18 min. 43.7607 sec.)
Longitude: 103.796833 W (-103 deg. 47 min. 48.5974 sec.)
Elevation: 3350.00 feet.
Calculation Date: Sep/17/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.2481 degrees
Total Magnetic Field: 0.48719 gauss
Magnetic Declination: 7.786668 degrees
Horizontal Intensity: 0.241768 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.786668 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 707081.4510 feet
Y: 477709.4260 feet
True to Grid: (convergence) -0.286783 degrees
Magnetic to Grid: 7.499886 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.499886 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

Mon Sep 20 19:09:03 2010

Coordinates

Latitude: 32.312156 N (32 deg. 18 min. 43.7607 sec.)
Longitude: 103.796833 W (-103 deg. 47 min. 48.5974 sec.)
Elevation: 3350.00 feet.
Calculation Date: Sep/20/2010

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.2479 degrees
Total Magnetic Field: 0.48719 gauss
Magnetic Declination: 7.785667 degrees
Horizontal Intensity: 0.241766 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.785667 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 707081.4510 feet
Y: 477709.4260 feet
True to Grid: (convergence) -0.286783 degrees
Magnetic to Grid: 7.498884 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.498884 Degr.