

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO.

380-015-32472

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

V-5196

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:

OIL WELL ☐

GAS WELL ☒

DRY ☐

OTHER ☐

b. Type of Completion:

NEW WELL ☒

WORK OVER ☐

DEEPEN ☐

PLUG BACK ☐

DIFF RESVR ☐

OTHER ☐

7. Lease Name or Unit Agreement Name

Pecos 32 State

2. Name of Operator

Pogo Producing Company

3. Address of Operator

P. O. Box 10340, Midland, TX 79702-7340

8. Well No.

2

9. Pool name or Wildcat

McMillan Morrow North (Gas)

4. Well Location

Unit Letter C: 660 Feet From The North Line and 1650 Feet From The West Line

Section 32

Township 19S

Range 27E

NMPM

Eddy

County

10. Date Spudded

06/02/03

11. Date T.D. Reached

07/31/03

12. Date Compl. (Ready to Prod.)

08/23/03

13. Elevations (DF & RKB, RT, GR, etc.)

3325

14. Elev. Casinghead

3326

15. Total Depth

10,870

16. Plug Back T.D.

10,818

17. If Multiple Compl. How Many Zones?

--

18. Intervals Drilled By

Rotary Tools

0-10,870

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

Morrow 10,490-93, 10,502-09, 10,547-54, 10,565-75 & 10,643-48

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

22. 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
13-3/8	48	225	17-1/2	300 sks	
9-5/8	53.5 & 43.5	3010	12-1/4	600 sks	
5-1/2	17	10370	7-7/8	2250 sks	

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8	10,362	

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

10,490-10,648 (0A) 6 spf

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

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

28. PRODUCTION

Date First Production

09/24/03

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

Flowing

Well Status (Prod. or Shut-in)

SI WO Pipeline

Date of Test

10/01/03

Hours Tested

24

Choke Size

3/4

Prod'n For Test Period

Oil - Bbl.

0

Gas - MCF

18

Water - Bbl.

0

Gas - Oil Ratio

Flow Tubing Press.

Casing Pressure

Calculated 24-Hour Rate

Oil - Bbl.

0

Gas - MCF

18

Water - Bbl.

0

Oil Gravity - API - (Corr.)

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

SI Waiting on Pipeline

Test Witnessed By

Gary Michael

30. List Attachments

C-104, Sundry, Logs, C-102

31. 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

Cathy Wright

Printed Name

Cathy Wright

Title

Sr Oper Tech

Date

10/13/03

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

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka 9447	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen 720	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg 1042	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres 1647	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo _____	T. Morrow 9632	T. Wingate _____	T. _____
T. Wolfcamp 7710	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR 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

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 & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-32472		² Pool Code 81240	³ Pool Name McMillan Morrow North (Gas)
⁴ Property Code 30694	⁵ Property Name Pecos 32 State		⁶ Well Number 2
⁷ OGRID No. 017891	⁸ Operator Name Pogo Producing Company		⁹ Elevation 3325

¹⁰ Surface Location

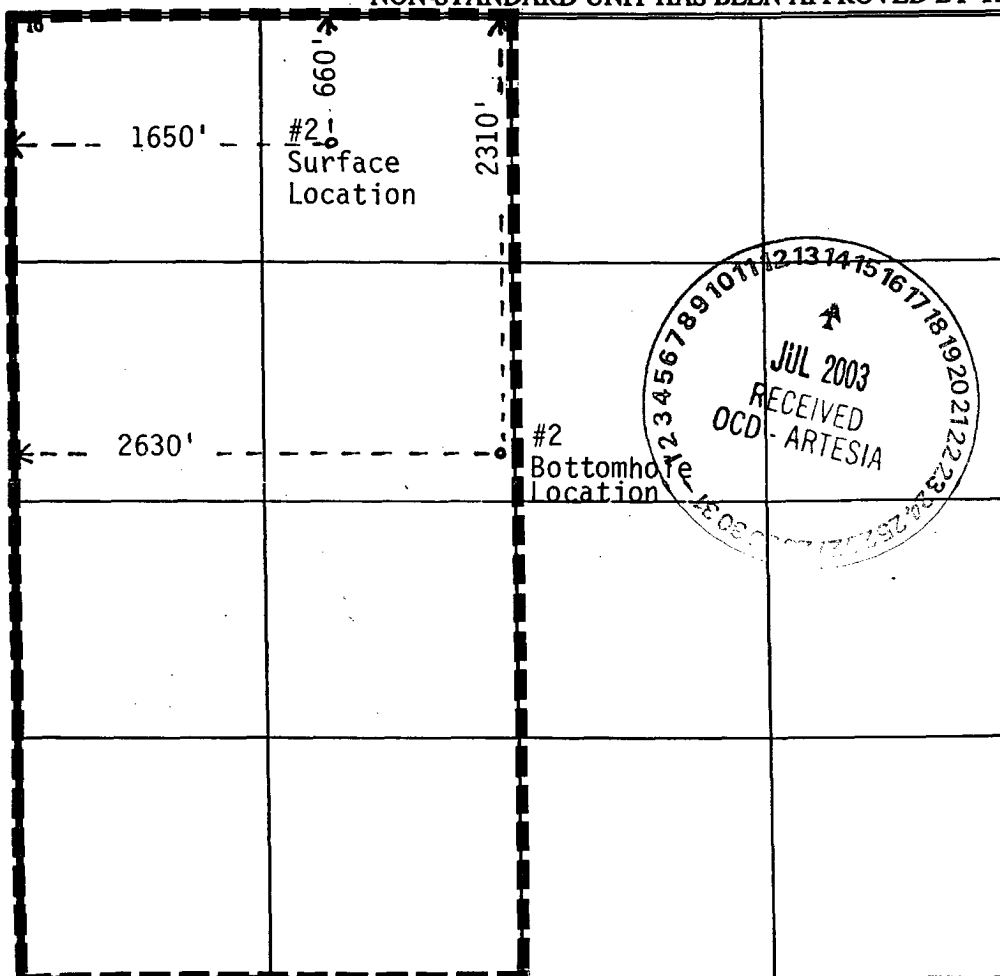
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	19S	27E		660	North	1650	West	Eddy

¹¹ 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
F	32	19S	27E		2310	North	2630	West	Eddy

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Cathy Tomberlin</i> Signature Cathy Tomberlin Printed Name Sr. Operation Tech Title 07/11/03 Date
¹⁸ SURVEYOR CERTIFICATION 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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number		

OPERATOR: POGO PRODUCING CO.
WELL/LEASE: PECOS 32 STATE 2
COUNTY: EDDY

142-0018

STATE OF NEW MEXICO
DEVIATION REPORT

CONFIDENTIAL

112	1/2	6,003	2
225	1/2	6,099	2
512	3/4	6,227	2 1/4
824	1 1/4	6,325	3
1,139	1 1/4	6,385	3
1,462	1 1/4	6,449	3
1,777	1 1/4	6,577	2 3/4
2,101	1	6,641	2 1/4
2,461	3/4	6,705	2
2,740	3/4	6,843	1
2,990	3/4	6,959	3/4
3,225	3/4	7,087	1/2
3,545	1 1/4	7,215	3/4
3,864	2	7,344	1
4,025	2	7,471	1 1/4
4,149	2 1/2	7,598	1 1/2
4,248	2	7,695	1 3/4
4,322	2	7,823	1 1/2
4,376	2	7,953	1 3/4
4,440	2	8,082	1
4,505	3	8,262	1 1/4
4,566	2 3/4	8,423	1/4
4,633	3	8,616	1/2
4,698	3 1/4	8,876	1
4,762	3	9,095	3/4
4,826	2 1/2	9,413	1 1/4
4,889	2	9,573	1 1/4
4,953	1 3/4	9,882	1 1/2
5,082	1 3/4	10,245	1 1/2
5,243	1	10,870	1 1/2
5,402	3/4		
5,619	1 1/2		
5,874	1 1/4		

By: Steve Moore

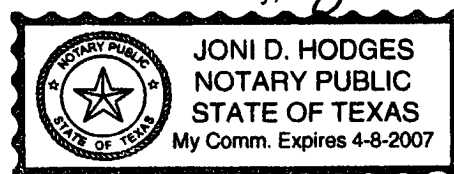
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 8th day of August, 2003, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 4/08/2007

Joni D. Hodges
Notary Public for Midland County, Texas





CONFIDENTIAL

DIRECTIONAL SURVEY REPORT

POGO PRODUCING

PECOS "32" S/T #2

EDDY COUNTY, NEW MEXICO

PREPARED BY: DAVID M. YOUNG



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

PATHFINDER

ENERGY SERVICES

3329 West Pinhook Road • Lafayette, LA 70508 • Phone: 337-233-3982 or 800-377-3982 • Fax: 337-234-2988

August 6, 2003

**POGO PRODUCING CO.
300 N. Marienfeld St., Suite 600
Midland, TX 79701**

Attn: Rex Jasper

**RE: POGO PRODUCING CO.
PECOS "32" S/T #2
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #142
API NO: 30-015-32472
OUR FILE NO.: J-WT-0307-0024**

Dear Sir:

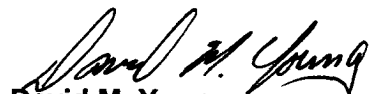
We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

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**

CONFIDENTIAL



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON (S) PERFORMING SURVEY: A) DANIEL HARRISON
3. POSITION OF SAID PERSON (S): (A) SURVEYOR (FIELD ENGINEERS)
4. DATE (S) ON WHICH SURVEY WAS PERFORMED: 07/12/03 TO 07/31/03
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY, NEW MEXICO
7. TYPE OF SURVEY (S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

POGO PRODUCING
PECOS "32" S/T #2
EDDY COUNTY, NEW MEXICO
RIG: PATTERSON #142

9. SURVEY CERTIFIED FROM: 7,410 TO 10,823 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1,559.00 FEET ON A BEARING OF 155.31 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT PROJECTED MEASURED DEPTH OF 10,870 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



DAVID M. YOUNG
SERVICE COORDINATOR

CONFIDENTIAL

Pathfinder

BHL Report

Page 1
Job No: J-WT-0307-0024
Date: 7/31/03
Time: 6:08 am
Wellpath ID: PECOS "32"
Date Created: 5/25/03
Last Revision: 7/31/03

*Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 154.17 deg.*

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

POGO PRODUCTION
PECOS "32" ST #2
EDDY, CO. NEW MEXICO
RIG: PATTERSON #142

DECL: 9.01° EAST TO GRID
KBH: 17' TO GROUND LEVEL

PATHFINDER SUPERVISOR:
RON WELCH
PATHFINDER ENGINEER:
DANIEL HARRISON

Measured Depth	10870.00	(ft)
Inclination	12.40	(deg)
Azimuth	190.94	(deg)
True Vertical Depth	10406.52	(ft)
Vertical Section	1558.69	(ft)
Rectangular Offsets		
North/South	1416.52 S	(ft)
East/West	651.12 E	(ft)
Closure Dist & Dir	1559.00@155.31	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

CONFIDENTIAL

Pathfinder

Survey Report

Page 1
Job No: J-WT-0307-0024
Date: 7/31/03
Time: 6:08 am
Wellpath ID: PECOS "32"
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Computed using PDS VER2.2.6
Vertical Section Plane: 154.17 deg.

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POGO PRODUCTION
PECOS "32" ST #2
EDDY, CO. NEW MEXICO
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KBH: 17' TO GROUND LEVEL

PATHFINDER SUPERVISOR:
RON WELCH
PATHFINDER ENGINEER:
DANIEL HARRISON

CONFIDENTIAL

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. Dir. (ft) (deg.)	DLS (dg/100ft)
TIE-IN TO SCIENTIFIC DRILLING CONTROLS GYRO SURVEY									
7371.00	1.15	192.26	7368.68	0.00	-51.83	52.59 N	10.31W	53.59@348.91	0.00
THE FOLLOWING ARE PATHFINDER SURVEYS									
7410.00	2.20	172.93	7407.66	39.00	-50.81	51.46 N	10.30W	52.49@348.68	3.02
7474.00	6.24	162.03	7471.48	64.00	-46.20	46.94 N	9.08W	47.80@349.06	6.41
7506.00	7.47	162.73	7503.25	32.00	-42.42	43.29 N	7.92W	44.01@349.63	3.85
7538.00	9.06	160.62	7534.91	32.00	-37.86	38.93 N	6.47W	39.46@350.57	5.06
7569.00	10.64	159.04	7565.46	31.00	-32.58	33.96 N	4.63W	34.27@352.23	5.17
7602.00	12.05	157.28	7597.81	33.00	-26.11	27.93 N	2.21W	28.02@355.47	4.40
7633.00	13.63	156.93	7628.03	31.00	-19.23	21.59 N	0.47 E	21.59@ 1.24	5.10
7665.00	15.21	157.11	7659.02	32.00	-11.27	14.25 N	3.58 E	14.69@ 14.09	4.94
7697.00	16.53	156.40	7689.80	32.00	-2.53	6.21 N	7.03 E	9.38@ 48.55	4.17
7729.00	17.94	155.88	7720.37	32.00	6.95	2.46 S	10.87 E	11.14@102.74	4.43
7761.00	19.52	155.26	7750.67	32.00	17.22	11.81 S	15.12 E	19.19@128.00	4.98
7793.00	21.19	154.56	7780.67	32.00	28.35	21.89 S	19.84 E	29.55@137.81	5.27
7825.00	22.51	154.91	7810.37	32.00	40.26	32.66 S	24.93 E	41.09@142.65	4.15
7857.00	23.13	155.17	7839.87	32.00	52.67	43.91 S	30.16 E	53.27@145.52	1.96
7889.00	24.09	154.64	7869.19	32.00	65.48	55.52 S	35.60 E	65.95@147.33	3.07
7921.00	25.41	154.12	7898.25	32.00	78.88	67.60 S	41.39 E	79.26@148.52	4.18
7953.00	26.64	155.08	7927.00	32.00	92.92	80.28 S	47.41 E	93.24@149.43	4.06
7985.00	27.26	156.40	7955.53	32.00	107.42	93.50 S	53.37 E	107.66@150.28	2.69
8016.00	28.31	155.96	7982.95	31.00	121.86	106.72 S	59.21 E	122.05@150.98	3.45
8048.00	30.42	154.82	8010.84	32.00	137.54	120.99 S	65.75 E	137.70@151.48	6.82
8080.00	32.54	154.56	8038.13	32.00	154.25	136.09 S	72.89 E	154.38@151.83	6.64
8112.00	33.06	157.11	8065.03	32.00	171.58	151.90 S	79.98 E	171.67@152.23	4.61
8144.00	32.54	159.66	8091.93	32.00	188.86	168.02 S	86.37 E	188.91@152.79	4.61
8176.00	32.36	160.27	8118.93	32.00	205.94	184.15 S	92.25 E	205.96@153.39	1.17

Pathfinder Survey Report

Page 2
Date: 7/31/03
Wellpath ID: PECOS "32"

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)
8208.00	32.80	160.71	8145.90	32.00	223.07	200.39 S	98.01 E	223.07@153.94	1.56
8240.00	34.03	160.27	8172.61	32.00	240.58	217.00 S	103.89 E	240.59@154.42	3.92
8272.00	35.17	160.27	8198.95	32.00	258.65	234.10 S	110.03 E	258.67@154.83	3.56
8304.00	37.37	158.86	8224.75	32.00	277.50	251.84 S	116.64 E	277.54@155.15	7.35
8336.00	39.66	157.54	8249.78	32.00	297.37	270.34 S	124.05 E	297.44@155.35	7.60
8368.00	40.89	156.75	8274.20	32.00	318.03	289.40 S	132.08 E	318.11@155.47	4.16
8400.00	41.06	156.23	8298.36	32.00	339.00	308.64 S	140.45 E	339.09@155.53	1.19
8432.00	40.98	156.14	8322.50	32.00	359.99	327.85 S	148.93 E	360.09@155.57	0.31
8464.00	41.06	156.14	8346.64	32.00	380.98	347.06 S	157.43 E	381.10@155.60	0.25
8496.00	40.89	155.35	8370.80	32.00	401.95	366.19 S	166.05 E	402.08@155.61	1.70
8528.00	40.19	152.98	8395.12	32.00	422.75	384.91 S	175.11 E	422.87@155.54	5.29
8560.00	38.95	151.66	8419.79	32.00	443.12	402.96 S	184.57 E	443.22@155.39	4.68
8592.00	38.43	150.60	8444.77	32.00	463.09	420.48 S	194.23 E	463.17@155.21	2.63
8624.00	36.84	149.81	8470.11	32.00	482.59	437.44 S	203.94 E	482.64@155.00	5.19
8656.00	36.32	149.63	8495.81	32.00	501.60	453.90 S	213.55 E	501.63@154.80	1.66
8688.00	36.40	149.46	8521.58	32.00	520.51	470.26 S	223.17 E	520.53@154.61	0.40
8720.00	36.05	149.55	8547.39	32.00	539.36	486.55 S	232.76 E	539.36@154.43	1.11
8767.00	35.40	149.50	8585.54	47.00	566.71	510.20 S	246.68 E	566.71@154.20	1.38
8811.00	34.38	149.46	8621.64	44.00	591.79	531.89 S	259.46 E	591.80@154.00	2.32
8843.00	32.80	151.83	8648.29	32.00	609.46	547.31 S	268.15 E	609.47@153.90	6.42
8875.00	32.45	153.59	8675.24	32.00	626.71	562.64 S	276.06 E	626.71@153.87	3.16
8907.00	33.24	154.65	8702.13	32.00	644.06	578.25 S	283.63 E	644.07@153.87	3.05
8939.00	35.00	155.26	8728.62	32.00	662.01	594.52 S	291.23 E	662.01@153.90	5.60
8971.00	35.53	155.61	8754.75	32.00	680.48	611.32 S	298.91 E	680.48@153.94	1.77
9003.00	35.53	155.26	8780.79	32.00	699.07	628.23 S	306.64 E	699.07@153.98	0.64
9035.00	36.40	155.26	8806.69	32.00	717.86	645.30 S	314.50 E	717.86@154.02	2.72
9067.00	36.58	155.96	8832.42	32.00	736.88	662.63 S	322.36 E	736.88@154.06	1.42
9099.00	36.76	155.44	8858.08	32.00	755.99	680.05 S	330.23 E	755.99@154.10	1.12
9130.00	37.28	154.82	8882.83	31.00	774.65	696.98 S	338.08 E	774.65@154.12	2.06
9162.00	37.28	154.12	8908.29	32.00	794.03	714.47 S	346.43 E	794.03@154.13	1.33
9194.00	37.11	155.70	8933.79	32.00	813.37	731.99 S	354.63 E	813.37@154.15	3.03
9226.00	36.84	155.17	8959.35	32.00	832.61	749.50 S	362.63 E	832.61@154.18	1.31
9256.00	36.58	155.35	8983.40	30.00	850.54	765.78 S	370.14 E	850.54@154.20	0.94
9288.00	36.49	155.44	9009.11	32.00	869.59	783.10 S	378.07 E	869.59@154.23	0.33
9320.00	36.05	156.14	9034.91	32.00	888.51	800.37 S	385.83 E	888.51@154.26	1.89
9352.00	36.05	155.35	9060.78	32.00	907.34	817.54 S	393.57 E	907.34@154.29	1.45
9384.00	35.88	155.61	9086.68	32.00	926.13	834.64 S	401.37 E	926.13@154.32	0.71
9416.00	35.88	155.26	9112.61	32.00	944.88	851.69 S	409.17 E	944.88@154.34	0.64
9448.00	36.49	154.47	9138.44	32.00	963.77	868.80 S	417.19 E	963.77@154.35	2.40
9480.00	36.49	154.47	9164.17	32.00	982.80	885.97 S	425.39 E	982.80@154.35	0.00
9512.00	36.14	154.38	9189.95	32.00	1001.75	903.06 S	433.57 E	1001.75@154.35	1.11
9544.00	35.96	154.29	9215.82	32.00	1020.58	920.04 S	441.73 E	1020.58@154.35	0.59
9608.00	36.32	154.03	9267.51	64.00	1058.32	954.01 S	458.18 E	1058.33@154.35	0.61
9679.00	35.70	154.47	9324.94	71.00	1100.07	991.60 S	476.32 E	1100.07@154.34	0.95
9743.00	36.76	154.12	9376.57	64.00	1137.89	1025.68 S	492.73 E	1137.90@154.34	1.69

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Pathfinder Survey Report

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Wellpath ID: PECOS "32"

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)
9806.00	36.67	154.64	9427.07	63.00	1175.55	1059.64 S	509.01 E	1175.56@154.34	0.51
9870.00	36.58	154.29	9478.43	64.00	1213.73	1094.10 S	525.47 E	1213.74@154.35	0.36
9934.00	34.91	155.26	9530.37	64.00	1251.12	1127.91 S	541.41 E	1251.12@154.36	2.76
10012.00	29.99	154.12	9596.18	78.00	1292.95	1165.75 S	559.27 E	1292.96@154.37	6.36
10076.00	27.26	155.96	9652.35	64.00	1323.60	1193.53 S	572.22 E	1323.61@154.39	4.48
10140.00	25.24	155.52	9709.75	64.00	1351.90	1219.34 S	583.85 E	1351.91@154.41	3.17
10204.00	23.13	153.15	9768.13	64.00	1378.11	1242.97 S	595.18 E	1378.12@154.41	3.63
10267.00	21.72	153.06	9826.36	63.00	1402.14	1264.41 S	606.05 E	1402.15@154.39	2.24
10322.00	20.22	154.82	9877.72	55.00	1421.82	1282.08 S	614.71 E	1421.83@154.38	2.96
10386.00	17.94	156.40	9938.20	64.00	1442.73	1301.13 S	623.36 E	1442.74@154.40	3.65
10450.00	16.80	156.14	9999.28	64.00	1461.82	1318.62 S	631.05 E	1461.84@154.43	1.79
10514.00	15.30	155.08	10060.78	64.00	1479.51	1334.73 S	638.35 E	1479.53@154.44	2.39
10578.00	14.86	158.16	10122.58	64.00	1496.14	1350.01 S	644.96 E	1496.16@154.46	1.43
10642.00	14.25	164.66	10184.53	64.00	1512.08	1365.22 S	650.10 E	1512.11@154.54	2.72
10706.00	13.72	171.96	10246.64	64.00	1527.05	1380.34 S	653.24 E	1527.11@154.67	2.88
10770.00	13.01	180.84	10308.91	64.00	1540.71	1395.06 S	654.20 E	1540.83@154.88	3.39
10823.00	12.40	190.94	10360.62	53.00	1550.61	1406.61 S	653.03 E	1550.81@155.10	4.34
STRAIGHT LINE PROJECTION TO BIT @ 10,870' MD									
10870.00	12.40	190.94	10406.52	47.00	1558.69	1416.52 S	651.12 E	1559.00@155.31	0.00

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