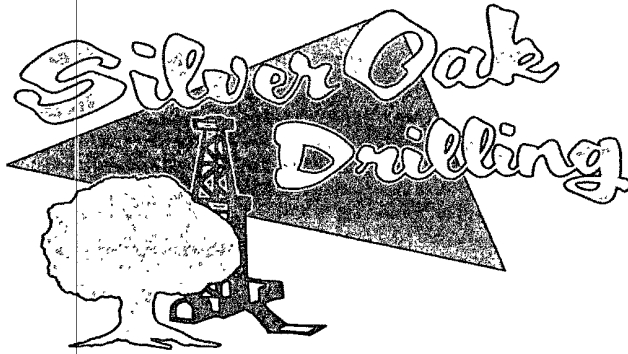




30-005-29117

P-29-15S-30E

1225 FSL + 330 FEL

PO Box 1370

Artesia, NM 88211-1370

(505) 748-1288

RECEIVED

MAY 27 2010

HOBBSCOCD

RECEIVED

MAY 21 2010

NMOCD ARTESIA

April 5, 2010

Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: Peery Federal #9
2445' FSL & 330' FEL
Sec. 29, T15S, R30E
Chaves County, New Mexico

Dear Sir,

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

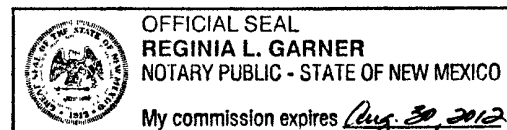
SUR @ P-29-15s-30e, 1225/S & 330/E
BHL @ O-29-15s-30e, 950/S & 1652/E
API # 30-005-29117

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 5th day of April, 2010.

Notary Public

MR

Pason DataHub Deviation Survey 2010/04/07 15:07:26

Well Dossier 1267136232 - PEERY FED #9

#

Date	Depth	Deviation	Direction	TVD
2/26/2010	137	0.40	213.60	0.00
2/26/2010	230	0.40	241.40	0.00
2/26/2010	320	0.40	234.70	0.00
2/26/2010	403	0.20	134.50	0.00
2/28/2010	486	0.40	205.20	0.00
2/28/2010	604	0.50	231.60	0.00
2/28/2010	754	0.50	220.00	0.00
2/28/2010	878	0.20	238.60	0.00
2/28/2010	999	0.40	101.10	0.00
2/28/2010	1178	0.70	54.00	0.00
2/28/2010	1244	1.20	72.00	0.00
2/28/2010	1369	1.20	65.30	0.00
2/28/2010	1493	1.60	61.40	0.00
2/28/2010	1617	1.20	57.60	0.00
2/28/2010	1742	0.90	63.50	0.00
3/1/2010	1898	0.90	48.10	0.00
3/1/2010	1991	0.70	14.30	0.00
3/1/2010	2117	0.70	29.80	0.00
3/1/2010	2240	0.70	13.60	0.00
3/1/2010	2378	0.50	348.60	0.00
3/1/2010	2505	0.40	22.70	0.00
3/1/2010	2628	0.20	49.10	0.00
3/1/2010	2745	0.40	14.70	0.00
3/1/2010	2870	0.50	343.00	0.00
3/1/2010	2994	0.50	317.40	0.00
3/2/2010	3119	0.90	304.30	0.00
3/2/2010	3243	0.70	313.10	0.00
3/2/2010	3379	0.70	295.20	0.00
3/3/2010	3414	0.62	290.63	3408.37
3/3/2010	3469	1.23	277.19	3463.36
3/3/2010	3496	1.32	275.67	3490.35
3/3/2010	3557	1.76	254.35	355.67
3/3/2010	3651	2.29	228.33	3650.64
3/3/2010	3744	1.76	211.25	3743.59
3/3/2010	3838	1.50	199.67	3837.55
3/3/2010	3931	1.76	200.30	3930.51
3/4/2010	4024	1.49	164.14	4023.47
3/4/2010	4118	1.49	164.71	4117.44
3/4/2010	4211	1.49	167.54	4210.41
3/4/2010	4305	0.62	106.13	4304.40
3/5/2010	4398	0.62	2.74	4397.99
3/5/2010	4492	0.62	355.71	4471.39
3/5/2010	4585	0.62	350.45	4584.38
3/5/2010	4679	0.53	342.73	4678.38
3/6/2010	4772	0.62	346.78	4771.37
3/6/2010	4959	1.93	178.64	4958.35
3/6/2010	5021	1.93	185.43	5020.31
3/6/2010	5083	1.85	184.80	5082.28
3/6/2010	5145	2.73	186.44	5144.23
3/7/2010	5208	4.40	190.76	5207.11

Pason DataHub Deviation Survey 2010/04/07 15:07:26

Well Dossier 1267136232 - PEERY FED #9

#

Date	Depth	Deviation	Direction	TVD
3/7/2010	5270	5.36	188.46	5268.88
3/7/2010	5332	6.33	179.64	5330.63
3/7/2010	5395	7.12	179.91	5393.13
3/7/2010	5457	8.09	184.10	5454.58
3/7/2010	5550	8.35	185.95	5546.62
3/7/2010	5644	8.00	178.81	5639.67
3/7/2010	5706	7.39	176.93	5701.11
3/8/2010	5800	7.03	177.03	5791.37
3/8/2010	5893	6.60	178.30	5886.71
3/8/2010	5955	7.47	178.42	5948.24
3/8/2010	6017	8.18	174.82	6009.67
3/8/2010	6111	8.18	176.09	6102.71
3/8/2010	6204	7.74	177.89	6194.82
3/8/2010	6298	7.65	177.46	6287.87
3/8/2010	6391	7.39	179.38	6380.17
3/9/2010	6530	7.30	179.96	6571.60
3/9/2010	6578	8.09	179.96	6565.56
3/9/2010	6671	7.83	180.27	6657.66
3/9/2010	6765	7.39	180.84	6750.83
3/9/2010	6857	7.12	180.85	6842.10
3/9/2010	6951	6.87	181.87	6935.40
3/9/2010	6982	6.77	181.41	6966.18
3/9/2010	7040	5.72	179.02	7027.21
3/10/2010	7107	5.28	177.31	7090.52
3/10/2010	7169	4.04	179.67	7152.31
3/10/2010	7231	2.64	177.19	7214.21
3/10/2010	7293	0.97	176.57	7276.18
3/10/2010	7432	0.70	349.31	7369.17
3/10/2010	7480	0.62	356.58	7463.17
3/11/2010	7574	0.62	346.24	7557.16
3/11/2010	7667	0.88	353.16	7650.16
3/11/2010	7760	0.18	184.38	7743.15
3/11/2010	7854	0.26	104.00	7837.15
3/11/2010	7947	0.26	140.08	7930.50
3/12/2010	8040	0.09	152.96	8023.15
3/14/2010	8333	0.30	0.00	0.00
3/15/2010	8738	0.00	0.00	0.00
3/16/2010	8922	1.50	0.00	0.00
3/19/2010	8136	0.35	257.55	8119.15
3/19/2010	8193	0.44	200.60	8176.16
3/19/2010	8224	0.53	223.33	8207.14
3/19/2010	8255	1.23	250.33	8238.14
3/19/2010	8266	3.17	267.73	8269.12
3/20/2010	8317	6.24	277.57	8300.10
3/21/2010	8379	13.01	278.76	8361.09
3/21/2010	8411	16.62	279.09	8392.03
3/21/2010	8442	20.40	279.11	8421.42
3/21/2010	8473	24.36	279.48	8450.08
3/21/2010	8504	28.49	278.56	8477.83
3/21/2010	8525	31.22	276.67	8512.55

Pason DataHub Deviation Survey 2010/04/07 15:07:26
Well Dossier 1267136232 - PEERY FED #9
#

Date	Depth	Deviation	Direction	TVD
3/21/2010	8525	31.22	276.67	8512.55
3/25/2010	8668	48.63	268.71	8605.45
3/26/2010	8700	53.38	267.61	8625.58
3/26/2010	8731	59.00	276.28	8642.82
3/26/2010	8763	65.33	267.21	8657.75
3/26/2010	8827	74.39	266.74	8679.77
3/26/2010	8859	76.50	266.54	8687.81
3/27/2010	8889	80.96	267.32	8693.67
3/28/2010	8921	84.40	268.12	8697.75
3/28/2010	8952	88.04	270.25	8699.79
3/28/2010	8984	92.60	270.81	8699.54
3/28/2010	9016	93.97	270.34	8697.63
3/28/2010	9048	93.98	269.80	8693.19
3/28/2010	9080	93.81	269.61	8693.24
3/28/2010	9111	94.20	269.21	8691.07
3/28/2010	9143	94.93	269.09	8688.53
3/28/2010	9175	94.76	267.85	8685.83
3/28/2010	9207	95.04	267.64	8683.09
3/29/2010	9239	94.60	267.30	8680.40
3/29/2010	9271	93.70	266.32	8678.09
3/29/2010	9303	93.25	264.99	8676.15
3/29/2010	9334	93.81	264.79	8674.24
3/29/2010	9366	92.52	265.08	8672.48
3/29/2010	9398	91.29	265.96	8671.41
3/29/2010	9430	91.96	265.63	8670.50
3/29/2010	9462	91.57	266.58	8669.51
3/29/2010	9494	91.18	267.53	8668.75
3/29/2010	9525	91.06	268.99	8668.14
3/30/2010	9557	91.12	271.34	8667.53
3/30/2010	9589	92.02	270.96	8657.17
3/30/2010	9621	92.63	270.52	8665.36
3/30/2010	9652	93.36	270.30	8663.74
3/30/2010	9684	93.27	270.19	8661.75
3/30/2010	9716	94.09	270.07	8659.57
3/30/2010	9748	92.74	270.84	8657.66
3/30/2010	9780	91.74	272.10	8656.41
3/30/2010	9801	91.74	271.98	8655.77

EOF

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MAY 21 2010

NMOCD ARTESIA

DIRECTIONAL SURVEY REPORT

MACK ENERGY CORPORATION

PEERY FEDERAL #9

CHAVES COUNTY, NM

PREPARED BY: PHIL LEBLANC

SUR @ P-29-15s-30e, 1225/S & 330/E
BHL @ O-29-15s-30e, 950/S & 1652/E
API # 30-005-29117

SCANNED





April 21, 2010

MACK ENERGY CORPORATION
Mr. Matt Brewer
11352 Lovington Hwy
Box 960
Artesia, NM 88211-0960

RE: MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NM
RIG: SILVEROAK #7
API Well No.: 30-005-29117
PES Job No.: 101009936-GC-WT

Dear Mr. Brewer:

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 Directional Survey Report

1 – Email PDF to:

charless@mackenergycorp.com

leel@mackenergycorp.com

donaldarcher@mackenergycorp.com

jimkrogman@mackenergycorp.com

kevingarrett@mackenergycorp.com

mbrewer@mackenergycorp.com

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,

Phil LeBlanc
M/LWD Service Coordinator
PathFinder Energy Services

PL:II

SCANNED

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
 - A) JOHN OVERTON
 - B) AARON JACKSON
 - C) Hafa DONARUMMA
3. POSITION OF SAID PERSON(S): (A-C) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 03/02/10 TO 03/30/10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: CHAVES COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NM
RIG: SILVEROAK #7
API Well No.: 30-005-29117
9. SURVEY(S) CERTIFIED FROM: 3,379 TO 9,856 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1,350.44 FEET ON A BEARING OF 258.25 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 9,856 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



PHIL LEBLANC
M/LWD SERVICE COORDINATOR

SCANNED

SMITH

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 03/02/2010
Date Completed: 03/30/2010

MACK ENERGY CORPORATION

PEERY FEDERAL #9

CHAVES COUNTY, NEW MEXICO

Rig:SILVER OAK 7

PathFinder Office Supervisor: PHIL LEBLANC

PathFinder Field Engineers:JOHN OVERTON

AARON JACKSON

HAFA DONARUMMA

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.58.58.6169 N LON:103.56.21.5522 W

GRID Reference:NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 620821.5000 Y: 721535.6000

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.76° EAST TO GRID

Vertical Section Plane: 258.83

Survey Vert. Reference: 19.00' Kelly Bushing To Ground

Altitude:3970.00' Ground To MSL

Measured Depth	9856.00	(feet)
Inclination	91.74	(deg)
Azimuth	271.98	(deg)
True Vertical Depth	8654.10	(feet)
Vertical Section	1350.37	(feet)
Survey X cord	619499.34	(feet)
Survey Y cord	721260.67	(feet)
Survey Lat	32.98220700 N	(deg)
Survey Lon	103.94363500 W	(deg)
Rectangular Corr. N/S	274.93 S	(feet)
Rectangular Corr. E/W	1322.16 W	(feet)
Closure Distance	1350.44	(feet)
Direction of Closure	258.25	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NEW MEXICO
Rig: SILVER OAK 7

PathFinder Office Supervisor: PHIL LEBLANC

PathFinder Field Engineers: JOHN OVERTON

AARON JACKSON

HAFA DONARUMMA

Survey Calculations by RX5 V6.03 using Minimum Curvature

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.58.58.6169 N LON: 103.56.21.5522 W

GRID Reference: NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 620821.5000 Y: 721535.6000

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.76° EAST TO GRID

Vertical Section Plane: 258.83

Survey Vert. Reference: 19.00' Kelly Bushing To Ground

Altitude: 3970.00' Ground To MSL

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
THE FOLLOWING ARE COMPASS DIRECTIONAL GUIDANCE SURVEYS.												
486.00	0.40	205.40	485.99	0.00	1.01	1.53 S	0.72 W	32.98294493 N	103.93932242 W	1.69@	205.23	0.00
604.00	0.50	231.60	603.99	118.00	1.71	2.22 S	1.30 W	32.98294304 N	103.93932432 W	2.58@	210.35	0.19
754.00	0.50	220.00	753.99	150.00	2.80	3.13 S	2.24 W	32.98294055 N	103.93932738 W	3.85@	215.52	0.07
878.00	0.20	238.60	877.98	124.00	3.42	3.66 S	2.77 W	32.98293911 N	103.93932912 W	4.59@	217.11	0.25
999.00	0.40	101.10	998.98	121.00	3.23	3.85 S	2.53 W	32.98293858 N	103.93932836 W	4.61@	213.35	0.47
1178.00	0.70	54.00	1177.97	179.00	1.66	3.33 S	1.04 W	32.98294000 N	103.93932347 W	3.49@	197.30	0.29
1214.00	1.20	72.00	1213.97	36.00	1.09	3.08 S	0.50 W	32.98294067 N	103.93932172 W	3.12@	189.22	1.60
1369.00	1.20	65.30	1368.94	155.00	-2.10	1.90 S	2.52 E	32.98294388 N	103.93931186 W	3.16@	127.08	0.09
1493.00	1.60	61.40	1492.90	124.00	-5.02	0.53 S	5.22 E	32.98294762 N	103.93930304 W	5.24@	95.82	0.33
1617.00	1.20	57.60	1616.86	124.00	-7.88	0.99 N	7.83 E	32.98295179 N	103.93929449 W	7.90@	82.78	0.33
1742.00	0.90	63.50	1741.84	125.00	-10.04	2.13 N	9.82 E	32.98295490 N	103.93928801 W	10.05@	77.75	0.25
1898.00	0.90	48.10	1897.82	156.00	-12.28	3.50 N	11.83 E	32.98295863 N	103.93928144 W	12.33@	73.53	0.16
1991.00	0.70	14.30	1990.81	93.00	-13.15	4.54 N	12.51 E	32.98296148 N	103.93927920 W	13.31@	70.07	0.54
2117.00	0.70	29.80	2116.80	126.00	-13.99	5.95 N	13.08 E	32.98296535 N	103.93927732 W	14.37@	65.55	0.15
2240.00	0.70	13.60	2239.79	123.00	-14.79	7.33 N	13.63 E	32.98296915 N	103.93927550 W	15.48@	61.73	0.16
2378.00	0.50	348.60	2377.79	138.00	-15.15	8.74 N	13.71 E	32.98297302 N	103.93927523 W	16.26@	57.48	0.24
2505.00	0.40	22.70	2504.78	127.00	-15.39	9.69 N	13.77 E	32.98297564 N	103.93927502 W	16.84@	54.86	0.22
2628.00	0.20	49.10	2627.78	123.00	-15.82	10.23 N	14.10 E	32.98297711 N	103.93927394 W	17.42@	54.04	0.19
2745.00	0.40	14.70	2744.78	117.00	-16.17	10.76 N	14.36 E	32.98297856 N	103.93927309 W	17.94@	53.16	0.22
2870.00	0.50	343.00	2869.78	125.00	-16.31	11.70 N	14.31 E	32.98298115 N	103.93927324 W	18.49@	50.73	0.21
2994.00	0.50	317.40	2993.77	124.00	-15.97	12.62 N	13.79 E	32.98298368 N	103.93927494 W	18.69@	47.53	0.18
3119.00	0.90	304.30	3118.76	125.00	-15.00	13.57 N	12.61 E	32.98298631 N	103.93927878 W	18.52@	42.89	0.34
3243.00	0.70	313.10	3242.75	124.00	-13.87	14.64 N	11.25 E	32.98298926 N	103.93928319 W	18.46@	37.54	0.19

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NEW MEXICO
RIG: SILVER OAK 7

Page 02/06

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
** TIED INTO COMPASS DIRECTIONAL GUIDANCE SURVEYS AT 3379' MD.												
3379.00	0.70	295.20	3378.74	136.00	-12.72	15.56 N	9.89 E	32.98299180 N	103.93928761 W	18.44@	32.44	0.16
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
3414.00	0.62	290.63	3413.74	35.00	-12.38	15.72 N	9.52 E	32.98299224 N	103.93928882 W	18.38@	31.20	0.27
3469.00	1.23	277.19	3468.73	55.00	-11.57	15.90 N	8.66 E	32.98299274 N	103.93929163 W	18.10@	28.57	1.17
3496.00	1.32	275.67	3495.72	27.00	-11.00	15.96 N	8.06 E	32.98299293 N	103.93929358 W	17.88@	26.78	0.36
3557.00	1.76	254.35	3556.70	61.00	-9.39	15.78 N	6.46 E	32.98299245 N	103.93929880 W	17.05@	22.25	1.17
3651.00	2.29	228.33	3650.64	94.00	-6.33	14.14 N	3.66 E	32.98298797 N	103.93930793 W	14.61@	14.53	1.11
3744.00	1.76	211.25	3743.59	93.00	-3.77	11.69 N	1.54 E	32.98298124 N	103.93931490 W	11.79@	7.48	0.86
3838.00	1.58	199.67	3837.55	94.00	-2.13	9.23 N	0.35 E	32.98297451 N	103.93931880 W	9.24@	2.17	0.41
3931.00	1.76	200.30	3930.51	93.00	-0.73	6.68 N	0.58 W	32.98296752 N	103.93932185 W	6.71@	355.07	0.19
4024.00	1.49	164.14	4023.47	93.00	-0.08	4.18 N	0.74 W	32.98296064 N	103.93932242 W	4.25@	349.94	1.12
4118.00	1.49	164.71	4117.44	94.00	-0.27	1.83 N	0.09 W	32.98295416 N	103.93932031 W	1.83@	357.32	0.02
4211.00	1.49	167.54	4210.41	93.00	-0.38	0.52 S	0.49 E	32.98294771 N	103.93931845 W	0.72@	136.42	0.08
4305.00	0.62	106.13	4304.40	94.00	-0.86	1.85 S	1.25 E	32.98294403 N	103.93931601 W	2.23@	146.09	1.40
4398.00	0.62	2.74	4397.39	93.00	-1.43	1.49 S	1.75 E	32.98294502 N	103.93931435 W	2.30@	130.37	1.05
4492.00	0.62	355.71	4491.39	94.00	-1.61	0.48 S	1.74 E	32.98294781 N	103.93931438 W	1.80@	105.30	0.08
4585.00	0.62	350.45	4584.38	93.00	-1.69	0.52 N	1.62 E	32.98295056 N	103.93931476 W	1.70@	72.13	0.06
4679.00	0.53	342.73	4678.38	94.00	-1.66	1.44 N	1.41 E	32.98295308 N	103.93931545 W	2.01@	44.33	0.13
4772.00	0.62	346.78	4771.37	93.00	-1.59	2.34 N	1.16 E	32.98295556 N	103.93931623 W	2.61@	26.43	0.11
4865.00	0.35	231.79	4864.37	93.00	-1.32	2.65 N	0.82 E	32.98295642 N	103.93931733 W	2.78@	17.26	0.89
4959.00	1.93	178.64	4958.35	94.00	-0.80	0.89 N	0.64 E	32.98295159 N	103.93931796 W	1.10@	35.47	1.85
5021.00	1.93	185.48	5020.31	62.00	-0.32	1.19 S	0.56 E	32.98294586 N	103.93931823 W	1.32@	154.74	0.37
5083.00	1.85	184.80	5082.28	62.00	0.25	3.23 S	0.38 E	32.98294027 N	103.93931886 W	3.25@	173.32	0.13
5145.00	2.73	186.44	5144.23	62.00	0.98	5.69 S	0.13 E	32.98293350 N	103.93931970 W	5.69@	178.70	1.42
5208.00	4.40	190.76	5207.11	63.00	2.33	9.56 S	0.49 W	32.98292288 N	103.93932177 W	9.57@	182.94	2.68
5270.00	5.36	188.46	5268.88	62.00	4.19	14.76 S	1.36 W	32.98290859 N	103.93932467 W	14.82@	185.27	1.58

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NEW MEXICO
RIG: SILVER OAK 7

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)	Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
5332.00	6.33	179.64	5330.56	62.00	5.81	21.04 S 1.77 W	32.98289133 N	103.93932606 W	21.11@	184.80	2.13
5395.00	7.12	179.91	5393.13	63.00	7.21	28.42 S 1.74 W	32.98287105 N	103.93932606 W	28.47@	183.50	1.26
5457.00	8.09	184.10	5454.58	62.00	9.10	36.61 S 2.04 W	32.98284853 N	103.93932716 W	36.67@	183.19	1.80
5550.00	8.35	185.99	5546.62	93.00	12.81	49.85 S 3.22 W	32.98281214 N	103.93933115 W	49.96@	183.69	0.40
5644.00	8.00	178.81	5639.67	94.00	15.96	63.18 S 3.79 W	32.98277552 N	103.93933319 W	63.30@	183.43	1.15
5706.00	7.39	176.93	5701.11	62.00	17.27	71.48 S 3.49 W	32.98275271 N	103.93933230 W	71.56@	182.79	1.06
5800.00	7.03	177.10	5794.37	94.00	18.95	83.26 S 2.87 W	32.98272032 N	103.93933044 W	83.31@	181.98	0.38
5893.00	6.60	178.30	5886.71	93.00	20.65	94.28 S 2.43 W	32.98269001 N	103.93932912 W	94.32@	181.48	0.49
5955.00	7.47	178.42	5948.25	62.00	21.90	101.88 S 2.21 W	32.98266915 N	103.93932850 W	101.90@	181.24	1.40
6017.00	8.18	174.82	6009.67	62.00	23.04	110.30 S 1.70 W	32.98264599 N	103.93932695 W	110.31@	180.88	1.39
6111.00	8.18	176.09	6102.71	94.00	24.58	123.63 S 0.64 W	32.98260934 N	103.93932365 W	123.63@	180.30	0.19
6204.00	7.74	177.89	6194.82	93.00	26.40	136.49 S 0.04 E	32.98257399 N	103.93932159 W	136.49@	179.98	0.54
6298.00	7.65	177.46	6287.97	94.00	28.34	149.06 S 0.55 E	32.98253942 N	103.93932008 W	149.06@	179.79	0.11
6391.00	7.39	179.38	6380.17	93.00	30.36	161.23 S 0.89 E	32.98250598 N	103.93931912 W	161.23@	179.68	0.39
6484.00	7.30	179.96	6472.41	93.00	32.60	173.12 S 0.96 E	32.98247330 N	103.93931904 W	173.12@	179.68	0.13
6578.00	8.09	179.96	6565.56	94.00	35.03	185.70 S 0.97 E	32.98243870 N	103.93931916 W	185.71@	179.70	0.84
6671.00	7.83	180.27	6657.66	93.00	37.55	198.58 S 0.94 E	32.98240331 N	103.93931940 W	198.59@	179.73	0.28
6765.00	7.39	180.84	6750.83	94.00	40.07	211.03 S 0.82 E	32.98236909 N	103.93931994 W	211.03@	179.78	0.48
6857.00	7.12	180.85	6842.10	92.00	42.49	222.65 S 0.65 E	32.98233716 N	103.93932064 W	222.65@	179.83	0.29
6951.00	6.86	181.87	6935.40	94.00	44.97	234.08 S 0.38 E	32.98230573 N	103.93932166 W	234.08@	179.91	0.31
6982.00	6.77	181.41	6966.18	31.00	45.79	237.76 S 0.28 E	32.98229563 N	103.93932205 W	237.76@	179.93	0.34
7044.00	5.72	179.02	7027.81	62.00	47.13	244.50 S 0.24 E	32.98227710 N	103.93932226 W	244.50@	179.94	1.74
7107.00	5.28	177.31	7090.52	63.00	48.11	250.54 S 0.43 E	32.98226051 N	103.93932171 W	250.54@	179.90	0.75
7169.00	4.04	179.67	7152.31	62.00	48.94	255.57 S 0.58 E	32.98224667 N	103.93932129 W	255.57@	179.87	2.02
7231.00	2.64	177.19	7214.21	62.00	49.56	259.18 S 0.66 E	32.98223675 N	103.93932107 W	259.18@	179.85	2.27
7293.00	0.97	176.57	7276.18	62.00	49.84	261.13 S 0.76 E	32.98223139 N	103.93932076 W	261.13@	179.83	2.69
7386.00	0.70	349.31	7369.17	93.00	49.94	261.36 S 0.70 E	32.98223076 N	103.93932095 W	261.36@	179.85	1.79

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NEW MEXICO
RIG: SILVER OAK 7

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
7480.00	0.62	356.58	7463.17	94.00	49.87	260.29 S	0.56 E	32.98223371 N	103.93932139 W	260.29@	179.88	0.12
7574.00	0.62	346.24	7557.16	94.00	49.82	259.29 S	0.41 E	32.98223646 N	103.93932187 W	259.29@	179.91	0.12
7667.00	0.88	353.16	7650.15	93.00	49.79	258.09 S	0.21 E	32.98223976 N	103.93932252 W	258.09@	179.95	0.30
7760.00	0.18	184.38	7743.15	93.00	49.78	257.52 S	0.11 E	32.98224131 N	103.93932283 W	257.52@	179.98	1.14
7854.00	0.26	104.00	7837.15	94.00	49.62	257.72 S	0.31 E	32.98224076 N	103.93932219 W	257.72@	179.93	0.31
7947.00	0.26	140.08	7930.15	93.00	49.33	257.94 S	0.65 E	32.98224017 N	103.93932109 W	257.94@	179.86	0.17
8040.00	0.09	152.96	8023.15	93.00	49.21	258.16 S	0.82 E	32.98223954 N	103.93932054 W	258.16@	179.82	0.19
8136.00	0.35	257.55	8119.15	96.00	49.48	258.29 S	0.56 E	32.98223919 N	103.93932136 W	258.29@	179.87	0.40
8193.00	0.44	200.60	8176.14	57.00	49.77	258.54 S	0.32 E	32.98223852 N	103.93932217 W	258.54@	179.93	0.68
8224.00	0.53	223.33	8207.14	31.00	49.95	258.75 S	0.18 E	32.98223793 N	103.93932263 W	258.75@	179.96	0.68
8255.00	1.23	250.33	8238.14	31.00	50.40	258.97 S	0.23 W	32.98223734 N	103.93932398 W	258.97@	180.05	2.57
8286.00	3.17	267.23	8269.12	31.00	51.57	259.12 S	1.40 W	32.98223693 N	103.93932779 W	259.13@	180.31	6.53
8317.00	6.24	277.57	8300.01	31.00	54.02	258.94 S	3.93 W	32.98223746 N	103.93933603 W	258.97@	180.87	10.23
8347.00	9.58	279.68	8329.72	30.00	57.90	258.31 S	8.01 W	32.98223924 N	103.93934932 W	258.43@	181.78	11.17
8379.00	13.01	278.76	8361.09	32.00	63.77	257.31 S	14.20 W	32.98224204 N	103.93936948 W	257.70@	183.16	10.73
8411.00	16.62	279.09	8392.03	32.00	71.45	256.04 S	22.28 W	32.98224562 N	103.93939582 W	257.00@	184.97	11.29
8442.00	20.40	279.11	8421.42	31.00	80.69	254.48 S	31.99 W	32.98225000 N	103.93942749 W	256.48@	187.17	12.19
8473.00	24.36	279.48	8450.08	31.00	91.74	252.57 S	43.64 W	32.98225537 N	103.93946544 W	256.31@	189.80	12.78
8504.00	28.49	278.56	8477.83	31.00	104.69	250.42 S	57.26 W	32.98226143 N	103.93950984 W	256.88@	192.88	13.39
8525.00	31.22	276.67	8496.04	21.00	114.59	249.04 S	67.62 W	32.98226533 N	103.93954361 W	258.06@	195.19	13.75
8636.00	44.58	270.51	8583.46	111.00	180.44	245.33 S	135.48 W	32.98227621 N	103.93976485 W	280.26@	208.91	12.50
8668.00	48.63	268.71	8605.45	32.00	203.28	245.50 S	158.73 W	32.98227598 N	103.93984066 W	292.35@	212.88	13.30
8700.00	53.38	267.61	8625.58	32.00	227.81	246.31 S	183.58 W	32.98227402 N	103.93992170 W	307.19@	216.70	15.08
8731.00	59.00	267.28	8642.82	31.00	253.27	247.46 S	209.30 W	32.98227112 N	103.94000559 W	324.10@	220.22	18.15
8763.00	65.33	267.21	8657.75	32.00	281.25	248.82 S	237.55 W	32.98226767 N	103.94009773 W	344.01@	223.67	19.78
8827.00	74.39	266.74	8679.77	64.00	340.67	252.00 S	297.49 W	32.98225956 N	103.94029324 W	389.87@	229.73	14.17
8859.00	76.50	266.54	8687.81	32.00	371.35	253.81 S	328.40 W	32.98225489 N	103.94039408 W	415.05@	232.30	6.62

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NEW MEXICO
RIG:SILVER OAK 7

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
8889.00	80.96	267.32	8693.67	30.00	400.47	255.38 S	357.78 W	32.98225087 N	103.94048989 W	439.57@	234.48	15.08
8921.00	84.40	268.12	8697.75	32.00	431.83	256.65 S	389.49 W	32.98224772 N	103.94059331 W	466.44@	236.62	11.03
8952.00	88.04	270.25	8699.79	31.00	462.25	257.08 S	420.41 W	32.98224684 N	103.94069415 W	492.78@	238.55	13.60
8984.00	92.86	270.81	8699.54	32.00	493.57	256.79 S	452.40 W	32.98224798 N	103.94079846 W	520.19@	240.42	15.16
9016.00	93.97	270.34	8697.63	32.00	524.84	256.47 S	484.34 W	32.98224919 N	103.94090262 W	548.05@	242.10	3.77
9048.00	93.98	269.88	8695.41	32.00	556.15	256.41 S	516.26 W	32.98224968 N	103.94100672 W	576.43@	243.59	1.43
9080.00	93.81	269.61	8693.24	32.00	587.50	256.55 S	548.19 W	32.98224962 N	103.94111083 W	605.25@	244.92	1.00
9111.00	94.20	269.21	8691.07	31.00	617.90	256.87 S	579.11 W	32.98224906 N	103.94121167 W	633.52@	246.08	1.80
9143.00	94.93	269.09	8688.53	32.00	649.28	257.34 S	611.00 W	32.98224809 N	103.94131569 W	662.98@	247.16	2.31
9175.00	94.76	267.85	8685.83	32.00	680.72	258.19 S	642.88 W	32.98224607 N	103.94141964 W	692.79@	248.12	3.90
9207.00	95.04	267.64	8683.09	32.00	712.21	259.45 S	674.73 W	32.98224295 N	103.94152354 W	722.90@	248.97	1.09
9239.00	94.60	267.30	8680.40	32.00	743.74	260.85 S	706.59 W	32.98223941 N	103.94162744 W	753.20@	249.74	1.74
9271.00	93.70	266.32	8678.09	32.00	775.34	262.63 S	738.46 W	32.98223485 N	103.94173138 W	783.77@	250.42	4.15
9303.00	93.25	264.99	8676.15	32.00	807.06	265.05 S	770.31 W	32.98222852 N	103.94183527 W	814.63@	251.01	4.38
9334.00	93.81	264.79	8674.24	31.00	837.83	267.81 S	801.12 W	32.98222126 N	103.94193580 W	844.70@	251.52	1.92
9366.00	92.52	265.08	8672.47	32.00	869.60	270.63 S	832.95 W	32.98221384 N	103.94203962 W	875.81@	252.00	4.13
9398.00	91.29	265.96	8671.41	32.00	901.36	273.12 S	864.83 W	32.98220730 N	103.94214363 W	906.94@	252.47	4.73
9430.00	91.96	265.63	8670.50	32.00	933.11	275.47 S	896.73 W	32.98220118 N	103.94224768 W	938.09@	252.92	2.33
9462.00	91.57	266.58	8669.52	32.00	964.84	277.64 S	928.64 W	32.98219553 N	103.94235177 W	969.26@	253.35	3.21
9494.00	91.18	267.53	8668.75	32.00	996.50	279.29 S	960.59 W	32.98219134 N	103.94245597 W	1000.37@	253.79	3.21
9525.00	91.06	268.99	8668.14	31.00	1027.07	280.23 S	991.57 W	32.98218907 N	103.94255701 W	1030.41@	254.22	4.72
9557.00	91.12	271.34	8667.53	32.00	1058.44	280.14 S	1023.56 W	32.98218965 N	103.94266133 W	1061.21@	254.69	7.35
9589.00	92.02	270.96	8666.66	32.00	1089.69	279.49 S	1055.54 W	32.98219174 N	103.94276562 W	1091.92@	255.17	3.05
9621.00	92.63	270.52	8665.36	32.00	1120.98	279.08 S	1087.51 W	32.98219320 N	103.94286987 W	1122.75@	255.61	2.35
9652.00	93.36	270.30	8663.74	31.00	1151.30	278.86 S	1118.47 W	32.98219412 N	103.94297082 W	1152.71@	256.00	2.46
9684.00	93.75	270.19	8661.75	32.00	1182.61	278.72 S	1150.41 W	32.98219483 N	103.94307497 W	1183.69@	256.38	1.27
9716.00	94.09	270.07	8659.57	32.00	1213.92	278.65 S	1182.33 W	32.98219535 N	103.94317907 W	1214.73@	256.74	1.13

PathFinder Energy Services, Inc.

Survey Report

MACK ENERGY CORPORATION
PEERY FEDERAL #9
CHAVES COUNTY, NEW MEXICO
RIG:SILVER OAK 7

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9748.00	92.74	270.84	8657.66	32.00	1245.20	278.40 S	1214.28 W	32.98219637 N	103.94328323 W	1245.78@	257.09	4.85
9780.00	91.74	272.10	8656.41	32.00	1276.40	277.58 S	1246.24 W	32.98219895 N	103.94338746 W	1276.78@	257.44	5.02
9801.00	91.74	271.98	8655.77	21.00	1296.84	276.83 S	1267.22 W	32.98220122 N	103.94345585 W	1297.10@	257.68	0.57
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 9856' MD.												
9856.00	91.74	271.98	8654.10	55.00	1350.37	274.93 S	1322.16 W	32.98220700 N	103.94363500 W	1350.44@	258.25	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.