

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-20949	² Pool Code 96899	³ Pool Name ARENA BLANCA ENTRADA, SOUTHEAST
⁴ Property Code 25148 36438	⁵ Property Name EAGLE SPRINGS 8 FEDERAL	⁶ Well Number 1H
⁷ GRID No. 246238	⁸ Operator Name HIGH PLAINS OPERATING COMPANY, LLC	⁹ Elevation 6717' (GR)

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
B	8	19-N	4-W		263	NORTH	2545	EAST	SANDOVAL

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
C	8	19-N	4-W		959	NORTH	2323	WEST	SANDOVAL

¹² Dedicated Acres 40 AC. NE/4 NW/4	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 5887 RCVD OCT 7 '08 OIL CONS. DIV.
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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

16 CALC'D. CORNER BY DBL. PROP. SET 2 1/2" AC. LS. #8894 2467 2323' N 00-00-08 E 2640.70' (C) FD. 2 1/2" BC. 1923 U.S.G.L.O. STATE PLANE COORDINATES (N.M. CENTRAL) (SURFACE LOCATION) N 1783851 E 194579 (BOTTOM HOLE LOCATION) N 1783156 E 194167 (POINT OF PENETRATION) N 1783434 E 194311 NOTE: POINT OF PENETRATION & BOTTOM HOLE FOOTAGES PROVIDED BY <u>HPQC</u> CLIENT	263' S.H.L. 2545' S 89-57-07 W 5280.14' (C) P.O.P. B.H.L. 959 674' 8 NAD 27 (SURFACE LOCATION) LAT: 35.898349° N LONG: 107.281150° W (BOTTOM HOLE LOCATION) LAT: 35.896512° N LONG: 107.282533° W (POINT OF PENETRATION) LAT: 35.897277° N LONG: 107.282052° W NAD 83 (SURFACE LOCATION) LAT: 35.898368° N LONG: 107.281751° W (BOTTOM HOLE LOCATION) LAT: 35.896531° N LONG: 107.283133° W (POINT OF PENETRATION) LAT: 35.897296° N LONG: 107.282652° W FD. 2 1/2" BC. 1923 U.S.G.L.O.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Arthur W. Butler III</u> 10/31/08 Signature Date ARTHUR W. BUTLER III Printed Name MANAGER HIGH PLAINS OPERATING CO., LLC 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 knowledge & belief. 9/20/1999 Date of Survey Signature and Seal of Professional Surveyor: 8894 Certificate Number
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8 10/14

PathFinder Energy Services, Inc.

Survey Report

HIGH PLAINS OPERATING COMPANY, LLC
EAGLE SPRINGS 8 FEDERAL #1 ST
SANDOVAL COUNTY, NM
Rig: Patterson 749
PathFinder Office Supervisor: Greg Meszaros
PathFinder Field Engineers: Salim Timsar
Mike Flowers

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 35.53.53.9700 N LON: 107.16.52.0900 W
ference: NAD27 new mexico central Transverse Mercator
Ref GRID Coord: X: 194604.5886 Y: 1783812.8651
North Aligned To: TRUE NORTH
Total Magnetic Correction: 9.92° EAST TO TRUE
Vertical Section Plane: 209.58
Survey Vert. Reference: 15.00' Kelly Bushing To Ground
Altitude: 6717.00' Ground To MSL

Survey Calculations by RX5 V5.11i using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular (ft)	Offsets (ft)	Closure Dist Dir (ft) (deg)	DLS (dg/100ft)
THE FOLLOWING ARE SCIENTIFIC GYRO SURVEYS.									
101.00	0.13	112.57	101.00	0.00	-0.02	0.04 S	0.11 E	0.12@ 109.51	0.00
201.00	0.14	1.25	201.00	100.00	-0.14	0.04 N	0.22 E	0.22@ 79.62	0.22
301.00	0.43	293.65	300.99	100.00	-0.21	0.31 N	0.12 W	0.34@ 338.34	0.40
401.00	0.35	285.22	400.99	100.00	-0.10	0.54 N	0.76 W	0.94@ 305.46	0.10
501.00	0.32	282.51	500.99	100.00	0.06	0.68 N	1.33 W	1.50@ 297.21	0.03
601.00	0.28	279.26	600.99	100.00	0.23	0.78 N	1.84 W	2.00@ 293.03	0.04
701.00	0.27	293.22	700.99	100.00	0.34	0.92 N	2.30 W	2.48@ 291.70	0.07
801.00	0.09	281.99	800.99	100.00	0.39	1.03 N	2.59 W	2.79@ 291.56	0.18
901.00	0.17	311.45	900.99	100.00	0.38	1.14 N	2.78 W	3.01@ 292.27	0.10
1001.00	0.06	335.49	1000.99	100.00	0.32	1.29 N	2.92 W	3.19@ 293.79	0.12
1101.00	0.24	265.48	1100.99	100.00	0.41	1.32 N	3.15 W	3.41@ 292.71	0.23
1201.00	0.28	261.90	1200.99	100.00	0.67	1.27 N	3.60 W	3.81@ 289.38	0.04
1301.00	0.49	243.97	1300.98	100.00	1.18	1.04 N	4.22 W	4.35@ 283.88	0.24
1401.00	0.44	222.02	1400.98	100.00	1.90	0.57 N	4.86 W	4.90@ 276.69	0.18
1501.00	0.52	213.07	1500.98	100.00	2.73	0.09 S	5.37 W	5.37@ 268.99	0.11
1601.00	0.54	211.15	1600.97	100.00	3.66	0.88 S	5.86 W	5.93@ 261.47	0.03
1701.00	0.76	220.76	1700.97	100.00	4.78	1.78 S	6.54 W	6.78@ 254.73	0.24
1801.00	0.79	210.06	1800.96	100.00	6.12	2.88 S	7.32 W	7.86@ 248.49	0.15
1901.00	0.67	214.13	1900.95	100.00	7.39	3.96 S	7.99 W	8.92@ 243.61	0.13
2001.00	0.62	213.18	2000.94	100.00	8.51	4.90 S	8.61 W	9.91@ 240.36	0.05
2101.00	0.52	202.08	2100.94	100.00	9.50	5.77 S	9.08 W	10.76@ 237.55	0.15
2201.00	0.58	207.60	2200.93	100.00	10.46	6.64 S	9.48 W	11.58@ 234.99	0.08
2301.00	0.59	200.02	2300.93	100.00	11.47	7.58 S	9.90 W	12.46@ 232.56	0.08
2401.00	0.59	188.78	2400.92	100.00	12.46	8.57 S	10.15 W	13.28@ 229.83	0.12
2501.00	0.60	175.79	2500.92	100.00	13.38	9.60 S	10.19 W	14.00@ 226.71	0.13

REVISED OCT 7 '08
BY GCS.DV.
PST.3

PathFinder Energy Services, Inc.

Survey Report

HIGH PLAINS OPERATING COMPANY, LLC
EAGLE SPRINGS 8 FEDERAL #1 ST
SANDOVAL COUNTY, NM
RIG:Patterson 749

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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)
2601.00	0.60	173.49	2600.91	100.00	14.24	10.64 S	10.09 W	14.67@	223.48	0.02
2701.00	0.60	175.16	2700.91	100.00	15.09	11.68 S	9.99 W	15.37@	220.53	0.02
2801.00	0.68	167.27	2800.90	100.00	15.96	12.78 S	9.81 W	16.12@	217.51	0.12
2901.00	0.69	170.56	2900.89	100.00	16.87	13.96 S	9.58 W	16.93@	214.48	0.04
3001.00	0.68	177.00	3000.88	100.00	17.84	15.14 S	9.45 W	17.85@	211.98	0.08
3101.00	0.70	185.32	3100.88	100.00	18.89	16.34 S	9.48 W	18.89@	210.12	0.10
3201.00	0.70	207.72	3200.87	100.00	20.06	17.49 S	9.82 W	20.06@	209.31	0.27
3301.00	0.56	213.02	3300.86	100.00	21.16	18.44 S	10.37 W	21.16@	209.35	0.15
3401.00	0.54	208.63	3400.86	100.00	22.12	19.27 S	10.86 W	22.12@	209.42	0.05
3501.00	0.35	212.49	3500.86	100.00	22.89	19.94 S	11.25 W	22.89@	209.44	0.19
3601.00	0.44	225.35	3600.85	100.00	23.57	20.47 S	11.69 W	23.57@	209.74	0.13
3701.00	0.44	217.91	3700.85	100.00	24.32	21.04 S	12.20 W	24.32@	210.11	0.06
3801.00	0.45	210.25	3800.85	100.00	25.09	21.68 S	12.63 W	25.09@	210.23	0.06
3901.00	0.42	252.38	3900.85	100.00	25.75	22.13 S	13.18 W	25.76@	210.78	0.31
4001.00	0.53	254.56	4000.84	100.00	26.35	22.36 S	13.98 W	26.37@	212.00	0.11
4101.00	0.66	259.57	4100.84	100.00	27.05	22.59 S	14.99 W	27.11@	213.56	0.14
4201.00	0.62	249.20	4200.83	100.00	27.83	22.89 S	16.06 W	27.96@	215.06	0.12
4301.00	0.45	197.77	4300.83	100.00	28.63	23.45 S	16.69 W	28.78@	215.43	0.49
4401.00	0.43	180.88	4400.82	100.00	29.35	24.20 S	16.81 W	29.47@	214.78	0.13
4501.00	0.24	153.57	4500.82	100.00	29.79	24.77 S	16.72 W	29.88@	214.03	0.24
4601.00	0.31	129.10	4600.82	100.00	29.96	25.12 S	16.42 W	30.01@	213.17	0.13
4701.00	0.27	133.75	4700.82	100.00	30.06	25.46 S	16.04 W	30.09@	212.21	0.05
4801.00	0.35	153.47	4800.82	100.00	30.29	25.89 S	15.73 W	30.30@	211.28	0.13
4901.00	0.81	151.84	4900.81	100.00	30.83	26.79 S	15.26 W	30.83@	209.67	0.46
5001.00	0.77	138.68	5000.80	100.00	31.43	27.92 S	14.49 W	31.45@	207.42	0.19
5101.00	0.84	145.22	5100.79	100.00	31.97	29.03 S	13.62 W	32.06@	205.15	0.12
** TIED INTO SCIENTIFIC GYRO SURVEY @ 5201'MD.										
5201.00	1.07	149.29	5200.78	100.00	32.75	30.43 S	12.73 W	32.99@	202.70	0.24

PathFinder Energy Services, Inc.

Survey Report

HIGH PLAINS OPERATING COMPANY, LLC
EAGLE SPRINGS 8 FEDERAL #1 ST
SANDOVAL COUNTY, NM
RIG:Patterson 749

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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)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
5307.00	10.55	223.04	5306.16	106.00	42.70	38.39 S	18.86 W	42.78@	206.17	9.72
5339.00	13.19	230.72	5337.47	32.00	48.96	42.85 S	23.69 W	48.96@	208.94	9.60
5371.00	21.19	230.84	5368.02	32.00	57.77	48.82 S	31.01 W	57.84@	212.42	25.00
5403.00	29.37	228.60	5396.93	32.00	70.60	57.68 S	41.40 W	71.00@	215.67	25.73
5434.00	37.46	226.58	5422.79	31.00	86.83	69.20 S	53.97 W	87.76@	217.95	26.34
5464.00	44.67	223.00	5445.39	30.00	105.84	83.21 S	67.81 W	107.34@	219.18	25.27
5496.00	52.14	218.50	5466.63	32.00	129.30	101.35 S	83.37 W	131.24@	219.44	25.59
5528.00	60.06	217.14	5484.46	32.00	155.56	122.32 S	99.63 W	157.77@	219.16	25.00
5560.00	67.01	217.27	5498.71	32.00	183.94	145.13 S	116.95 W	186.38@	218.86	21.72
5595.00	73.60	216.42	5510.50	35.00	216.61	171.49 S	136.69 W	219.30@	218.56	18.97
5627.00	77.73	212.77	5518.43	32.00	247.48	197.00 S	154.28 W	250.22@	218.07	16.99
5665.00	77.65	208.47	5526.53	38.00	284.59	228.94 S	173.18 W	287.07@	217.11	11.06
5697.00	78.96	207.03	5533.02	32.00	315.91	256.67 S	187.77 W	318.03@	216.19	6.01
5729.00	82.66	206.53	5538.13	32.00	347.46	284.87 S	202.00 W	349.22@	215.34	11.66
5761.00	85.21	206.94	5541.51	32.00	379.24	313.29 S	216.32 W	380.71@	214.62	8.07
5793.00	87.49	207.39	5543.55	32.00	411.14	341.70 S	230.90 W	412.40@	214.05	7.26
5825.00	85.30	207.06	5545.56	32.00	443.05	370.09 S	245.51 W	444.12@	213.56	6.92
5856.00	84.50	206.59	5548.31	31.00	473.89	397.65 S	259.44 W	474.80@	213.12	2.99
5888.00	84.59	205.71	5551.36	32.00	505.69	426.24 S	273.48 W	506.43@	212.68	2.75
5920.00	87.32	206.19	5553.61	32.00	537.54	454.94 S	287.45 W	538.14@	212.29	8.66
5952.00	88.29	206.49	5554.84	32.00	569.47	483.60 S	301.63 W	569.96@	211.95	3.17
5984.00	91.36	207.17	5554.94	32.00	601.43	512.15 S	316.07 W	601.83@	211.68	9.83
6016.00	91.71	208.10	5554.08	32.00	633.40	540.49 S	330.91 W	633.74@	211.48	3.11
6048.00	92.15	207.78	5553.00	32.00	665.36	568.74 S	345.90 W	665.67@	211.31	1.70
6080.00	92.24	207.38	5551.78	32.00	697.32	597.08 S	360.70 W	697.58@	211.14	1.28
STRAIGHT LINE PROJECTION TO BIT @ 6191'MD.										
6191.00	92.24	207.38	5547.44	111.00	808.15	695.58 S	411.71 W	808.29@	210.62	0.00

Top Ref
5976

PathFinder Energy Services, Inc.

Survey Report

**HIGH PLAINS OPERATING COMPANY, LLC
EAGLE SPRINGS 8 FEDERAL #1 ST
SANDOVAL COUNTY, NM
RIG:Patterson 749**

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**** 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.**