

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

AUG 11 2008

5. Lease Serial No. NM/NM 99705
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

High Plains Operating Company, LLC

3a. Address

32700 Aspen Drive
Buena Vista, CO 81211

3b. Phone No. (include area code)

719-395-8059 719-207-0164(Cell)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

263' FNL and 2545' FEL of section 8-T19N-R4W of the NMPM

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Eagle Springs 8 Federal #1H

9. API Well No.

30-043-20949

10. Field and Pool or Exploratory Area

Arena Blanca Entrada Southeast (96899)

11. Country or Parish, State

Sandoval County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Final directional plan
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

High Plains Operating Company, LLC (HPOC) is operating with Bond No. NMB 000457.

Following is the final, pre-spud directional drilling plan for the subject well.

RCVD AUG 12 '08
OIL CONS. DIV.

DIST. 3

Hold C104

for Directional Survey
and "As Drilled" plat

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Arthur W. Butler III

Title Manager, High Plains Operating Company, LLC

Signature

Arthur W. Butler III

Date 08/07/2008

APPROVED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

BLM SANDOVAL FIELD OFFICE

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCDC

High Plains Operating Co, LLC

Sandoval County, NM

Eagle Springs 8 Federal

Eagle Springs 8 Federal #1

ST01

Plan: Plan #2

X and Y report

15 July, 2008

PATHFINDER
ENERGY SERVICES

High Plains Operating Co, LLC

Project: Sandoval County, NM
 Site: Eagle Springs 8 Federal
 Well: Eagle Springs 8 Federal #1
 Wellbore: ST01

Plan: Plan #2 (Eagle Springs 8 Federal #1/ST01)

PATHFINDER
 ENERGY SERVICES

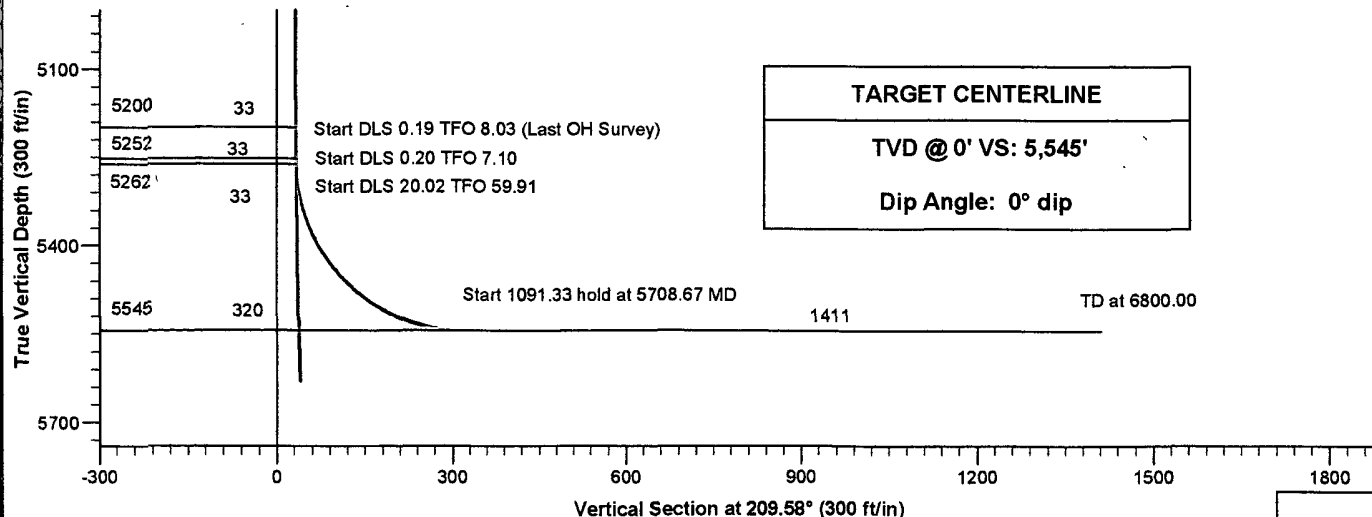
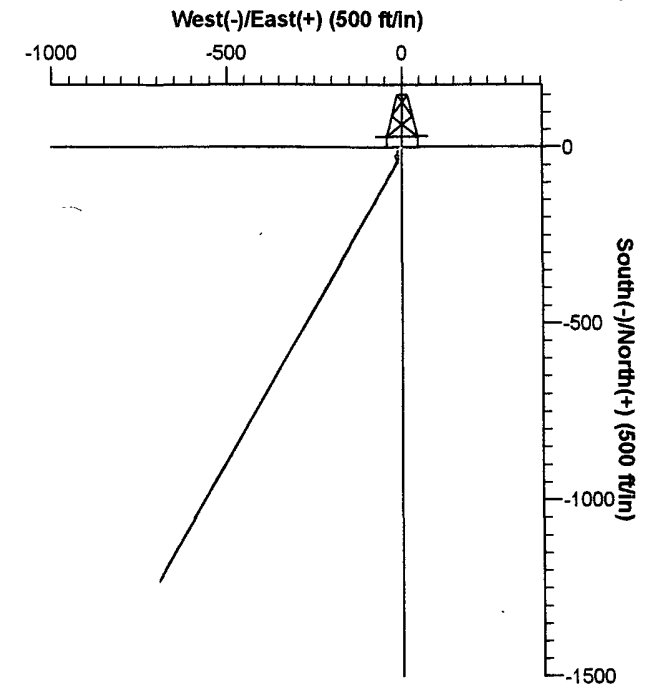
WELL DETAILS: Eagle Springs 8 Federal #1

Ground Elevation: 6717.00
 RKB Elevation: Est RKB=14' @ 6731.00ft (Patterson 744)
 Rig Name: Patterson 744

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1783866.21	1335028.49	35° 53' 53.97000 N	07° 16' 52.09000 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5200.00	1.07	149.29	5199.78	-30.43	-12.72	0.00	0.00	32.74	
2	5252.00	1.17	149.98	5251.77	-31.31	-12.21	0.19	8.03	33.25	
3	5262.00	1.19	150.10	5261.77	-31.49	-12.11	0.20	7.10	33.36	
4	5708.67	90.00	210.00	5545.00	-281.92	-150.82	20.02	59.91	319.63	
5	6800.00	90.00	210.00	5545.00	-1227.04	-696.48	0.00	0.00	1410.93	



PROJECT DETAILS: Sandoval County, NM
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Central Zone
 Magnetic Model: IGRF200510

System Datum: Mean Sea Level
 Local North: No north reference data is available



Azimuths to True North
 Magnetic North: 9.92°

Magnetic Field
 Strength: 50625.3snT
 Dip Angle: 62.90°
 Date: 7/14/2008
 Model: IGRF200510

Plan: Plan #2 (Eagle Springs 8 Federal #1/ST01)
 Created By: Kurt Otto Date: 15:20, July 15 2008

pathfinder energy services

X and Y report



Company:	High Plains Operating Co, LLC	Local Co-ordinate Reference:	Well Eagle Springs 8 Federal #1
Project:	Sandoval County, NM	TVD Reference:	Est RKB=14' @ 6731.00ft (Patterson 744)
Site:	Eagle Springs 8 Federal	MD Reference:	Est RKB=14' @ 6731.00ft (Patterson 744)
Well:	Eagle Springs 8 Federal #1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	200316 NWDB

Project		Sandoval County, NM	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Eagle Springs 8 Federal				
Site Position:		Northing:	1,783,866.21 ft	Latitude:	35° 53' 53.97000 N
From:	Lat/Long	Easting:	1,335,028.49 ft	Longitude:	107° 16' 52.09000 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.60 °

Well		Eagle Springs 8 Federal #1				
Well Position	+N/-S	0.00 ft	Northing:	1,783,866.21 ft	Latitude:	35° 53' 53.97000 N
	+E/-W	0.00 ft	Easting:	1,335,028.49 ft	Longitude:	107° 16' 52.09000 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,717.00 ft

Wellbore	ST01
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/14/2008	9.93	62.90	50,625

Design	Plan #2
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	5,200.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	209.58

pathfinder energy services

X and Y report



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Site:	Eagle Springs 8 Federal	MD Reference:	Est RKB=14' @ 6731.00ft (Patterson 744)
Well:	Eagle Springs 8 Federal #1	North Reference:	True
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	200316 NWDB

Survey Tool Program		Date	7/15/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	5,200.00	Survey #1 Gyro (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
5,200.00	6,800.00	Plan #2 (ST01)			

Planned Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
5,200.00	1.07	149.29	5,199.78	-30.43	-12.72	32.74	0.00	1,783,835.92	1,335,015.44	
5,252.00	1.17	149.98	5,251.77	-31.31	-12.21	33.25	0.19	1,783,835.03	1,335,015.95	
5,262.00	1.19	150.10	5,261.77	-31.49	-12.11	33.36	0.20	1,783,834.85	1,335,016.05	
5,300.00	8.27	202.89	5,299.63	-34.35	-12.97	36.28	20.02	1,783,832.00	1,335,015.15	
5,400.00	28.24	208.08	5,394.12	-62.12	-27.05	67.38	20.02	1,783,804.38	1,335,000.78	
5,500.00	48.24	209.08	5,472.27	-116.14	-56.61	128.95	20.02	1,783,750.67	1,334,970.65	
5,600.00	68.25	209.59	5,524.62	-189.87	-98.10	213.55	20.02	1,783,677.38	1,334,928.39	
5,700.00	88.27	209.97	5,544.87	-274.41	-146.49	310.96	20.02	1,783,593.36	1,334,879.11	
5,708.67	90.00	210.00	5,545.00	-281.92	-150.82	319.63	20.02	1,783,585.90	1,334,874.70	
5,800.00	90.00	210.00	5,545.00	-361.02	-196.48	410.96	0.00	1,783,507.29	1,334,828.20	
5,900.00	90.00	210.00	5,545.00	-447.62	-246.48	510.95	0.00	1,783,421.22	1,334,777.29	
6,000.00	90.00	210.00	5,545.00	-534.22	-296.48	610.95	0.00	1,783,335.15	1,334,726.38	
6,100.00	90.00	210.00	5,545.00	-620.83	-346.48	710.95	0.00	1,783,249.08	1,334,675.47	
6,200.00	90.00	210.00	5,545.00	-707.43	-396.48	810.95	0.00	1,783,163.01	1,334,624.56	
6,300.00	90.00	210.00	5,545.00	-794.03	-446.48	910.94	0.00	1,783,076.94	1,334,573.65	
6,400.00	90.00	210.00	5,545.00	-880.63	-496.48	1,010.94	0.00	1,782,990.87	1,334,522.74	
6,500.00	90.00	210.00	5,545.00	-967.24	-546.48	1,110.94	0.00	1,782,904.80	1,334,471.82	
6,600.00	90.00	210.00	5,545.00	-1,053.84	-596.48	1,210.94	0.00	1,782,818.73	1,334,420.91	
6,700.00	90.00	210.00	5,545.00	-1,140.44	-646.48	1,310.93	0.00	1,782,732.66	1,334,370.00	
6,800.00	90.00	210.00	5,545.00	-1,227.04	-696.48	1,410.93	0.00	1,782,646.59	1,334,319.09	