

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-39813
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Bradley 8 Fee
8. Well Number 4H
9. OGRID Number 229137
10. Pool name or Wildcat Wildcat; G01 S192617K: GL-Yeso 97788

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator COG Operating LLC	
3. Address of Operator One Concho Center - 600 W Illinois Ave Midland, TX 79701	
4. Well Location Unit Letter P : 160 feet from the SOUTH line and 1040 feet from the EAST line Section 8 Township 19S Range 26E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3370'	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **Change Casing Program** ☒

OTHER: ☐

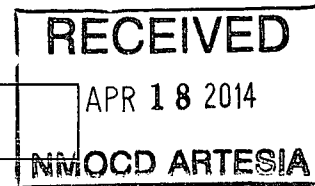
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG proposes to drill an 11" hole to 1200' w/fresh water, run 8-5/8" 32# J-55 and cement to surface. Drill a 7-7/8" hole to 3397' MD and kick off and drill curve to 3094' TVD 3630' MD. Drill a 7-7/8" lateral to new BHL @ 3058' TVD 7721' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

A revised directional plan is attached.

Spud Date:

Rig Release Date:



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE **Permitting Tech** DATE **4/16/2014**

Type or print name **Kelly J. Holly** E-mail address: **kholly@concho.com** PHONE: **432-685-4384**

For State Use Only

APPROVED BY: [Signature] TITLE **"Geologist"** DATE **4-18-2014**

Conditions of Approval (if any):



COG Operating LLC

Eddy County, NM (NAD27 NME)

Bradley 8 Fee

#4H

WB1

Plan: Plan #1 04-03-14

Surface: 160' FSL, 1040' FEL, Sec 8, T19S, R26E, Unit P

PP: 573' FSL, 1040' FEL, Sec 8, T19S, R26E, Unit P

BHL: 330' FNL, 986' FEL, Sec 8, T19S, R26E, Unit A

Standard Planning Report

03 April, 2014





Phoenix Technology Services
Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #4H
Company:	COG Operating LLC	TVD Reference:	GL @ 3370.00usft
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	GL @ 3370.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 04-03-14		

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Bradley 8 Fee		
Site Position:		Northing:	606,797.50 usft
From:	Map	Easting:	478,847.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 5.40482 N
		Longitude:	104° 24' 7.45386 W
		Grid Convergence:	-0.04 °

Well	#4H		
Well Position	+N/-S	2.50 usft	Northing:
	+E/-W	1,220.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 40' 5.43715 N
		Longitude:	104° 23' 53.18144 W
		Ground Level:	3,370.00 usft

Wellbore	WB1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	04/03/14	7.66
			Dip Angle
			(°)
			60.39
			Field Strength
			(nT)
			48,513

Design	Plan #1 04-03-14		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.44

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,574.75	0.00	0.00	2,574.75	0.00	0.00	0.00	0.00	0.00	0.00	
3,397.48	90.50	5.50	3,095.60	523.00	50.36	11.00	11.00	0.00	5.50	
3,630.17	90.50	358.52	3,093.56	755.39	58.51	3.00	0.00	-3.00	-89.96	
7,720.50	90.50	358.52	3,057.75	4,844.20	-47.20	0.00	0.00	0.00	0.00	PBHL-Bradley 8 #4H



Phoenix Technology Services

Planning Report



Database:	GCR/DB	Local Co-ordinate Reference:	Well #4H
Company:	COG Operating LLC	TVD Reference:	GL @ 3370.00usft
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	GL @ 3370.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1-04-03-14		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,574.75	0.00	0.00	2,574.75	0.00	0.00	0.00	0.00	0.00	0.00
KOP: 11°/100' Build									
2,600.00	2.78	5.50	2,599.99	0.61	0.06	0.61	11.00	11.00	0.00
2,700.00	13.78	5.50	2,698.80	14.92	1.44	14.90	11.00	11.00	0.00
2,800.00	24.78	5.50	2,793.04	47.73	4.60	47.68	11.00	11.00	0.00
2,900.00	35.78	5.50	2,879.27	97.84	9.42	97.74	11.00	11.00	0.00
3,000.00	46.78	5.50	2,954.31	163.41	15.73	163.24	11.00	11.00	0.00
3,100.00	57.78	5.50	3,015.40	242.02	23.30	241.78	11.00	11.00	0.00
3,200.00	68.78	5.50	3,060.30	330.79	31.85	330.46	11.00	11.00	0.00
3,286.25	78.27	5.50	3,084.73	413.03	39.77	412.62	11.00	11.00	0.00
PP-Bradley 8 #4H									
3,300.00	79.78	5.50	3,087.35	426.46	41.06	426.04	11.00	11.00	0.00
3,384.52	89.07	5.50	3,095.55	510.10	49.12	509.60	11.00	11.00	0.00
TL: 3100' TVD @ 0 VZ, 90.5° Inc									
3,397.48	90.50	5.50	3,095.60	523.00	50.36	522.48	11.00	11.00	0.00
LP: Begin 3°/100' Turn									
3,400.00	90.50	5.42	3,095.58	525.51	50.60	524.99	3.00	0.00	-3.00
3,500.00	90.50	2.42	3,094.70	625.26	57.44	624.67	3.00	0.00	-3.00
3,600.00	90.50	359.42	3,093.83	725.23	59.05	724.62	3.00	0.00	-3.00
3,630.17	90.50	358.52	3,093.56	755.39	58.51	754.79	3.00	0.00	-3.00
Hold 90.5° Inc, 358.52° Azm									
3,700.00	90.50	358.52	3,092.95	825.20	56.71	824.61	0.00	0.00	0.00
3,800.00	90.50	358.52	3,092.08	925.16	54.12	924.59	0.00	0.00	0.00
3,900.00	90.50	358.52	3,091.20	1,025.12	51.54	1,024.57	0.00	0.00	0.00
4,000.00	90.50	358.52	3,090.33	1,125.09	48.95	1,124.56	0.00	0.00	0.00
4,100.00	90.50	358.52	3,089.45	1,225.05	46.37	1,224.54	0.00	0.00	0.00
4,200.00	90.50	358.52	3,088.58	1,325.01	43.79	1,324.52	0.00	0.00	0.00
4,300.00	90.50	358.52	3,087.70	1,424.97	41.20	1,424.51	0.00	0.00	0.00
4,400.00	90.50	358.52	3,086.82	1,524.94	38.62	1,524.49	0.00	0.00	0.00
4,500.00	90.50	358.52	3,085.95	1,624.90	36.03	1,624.47	0.00	0.00	0.00
4,600.00	90.50	358.52	3,085.07	1,724.86	33.45	1,724.46	0.00	0.00	0.00
4,700.00	90.50	358.52	3,084.20	1,824.83	30.86	1,824.44	0.00	0.00	0.00
4,800.00	90.50	358.52	3,083.32	1,924.79	28.28	1,924.42	0.00	0.00	0.00
4,900.00	90.50	358.52	3,082.45	2,024.75	25.69	2,024.40	0.00	0.00	0.00
5,000.00	90.50	358.52	3,081.57	2,124.71	23.11	2,124.39	0.00	0.00	0.00
5,100.00	90.50	358.52	3,080.69	2,224.68	20.53	2,224.37	0.00	0.00	0.00
5,200.00	90.50	358.52	3,079.82	2,324.64	17.94	2,324.35	0.00	0.00	0.00
5,300.00	90.50	358.52	3,078.94	2,424.60	15.36	2,424.34	0.00	0.00	0.00
5,400.00	90.50	358.52	3,078.07	2,524.57	12.77	2,524.32	0.00	0.00	0.00
5,500.00	90.50	358.52	3,077.19	2,624.53	10.19	2,624.30	0.00	0.00	0.00
5,600.00	90.50	358.52	3,076.32	2,724.49	7.60	2,724.29	0.00	0.00	0.00
5,700.00	90.50	358.52	3,075.44	2,824.45	5.02	2,824.27	0.00	0.00	0.00
5,800.00	90.50	358.52	3,074.57	2,924.42	2.43	2,924.25	0.00	0.00	0.00
5,900.00	90.50	358.52	3,073.69	3,024.38	-0.15	3,024.24	0.00	0.00	0.00
6,000.00	90.50	358.52	3,072.81	3,124.34	-2.73	3,124.22	0.00	0.00	0.00
6,100.00	90.50	358.52	3,071.94	3,224.30	-5.32	3,224.20	0.00	0.00	0.00
6,200.00	90.50	358.52	3,071.06	3,324.27	-7.90	3,324.19	0.00	0.00	0.00
6,300.00	90.50	358.52	3,070.19	3,424.23	-10.49	3,424.17	0.00	0.00	0.00
6,400.00	90.50	358.52	3,069.31	3,524.19	-13.07	3,524.15	0.00	0.00	0.00
6,500.00	90.50	358.52	3,068.44	3,624.16	-15.66	3,624.14	0.00	0.00	0.00
6,600.00	90.50	358.52	3,067.56	3,724.12	-18.24	3,724.12	0.00	0.00	0.00
6,700.00	90.50	358.52	3,066.69	3,824.08	-20.83	3,824.10	0.00	0.00	0.00
6,800.00	90.50	358.52	3,065.81	3,924.04	-23.41	3,924.09	0.00	0.00	0.00



Phoenix Technology Services

Planning Report



Database:	GCR/DB	Local Co-ordinate Reference:	Well #4H
Company:	COG Operating LLC	TVD Reference:	GL @ 3370.00usft
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	GL @ 3370.00usft
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	#4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1- 04-03-14		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,900.00	90.50	358.52	3,064.93	4,024.01	-25.99	4,024.07	0.00	0.00	0.00
7,000.00	90.50	358.52	3,064.06	4,123.97	-28.58	4,124.05	0.00	0.00	0.00
7,100.00	90.50	358.52	3,063.18	4,223.93	-31.16	4,224.04	0.00	0.00	0.00
7,200.00	90.50	358.52	3,062.31	4,323.89	-33.75	4,324.02	0.00	0.00	0.00
7,300.00	90.50	358.52	3,061.43	4,423.86	-36.33	4,424.00	0.00	0.00	0.00
7,400.00	90.50	358.52	3,060.56	4,523.82	-38.92	4,523.98	0.00	0.00	0.00
7,500.00	90.50	358.52	3,059.68	4,623.78	-41.50	4,623.97	0.00	0.00	0.00
7,600.00	90.50	358.52	3,058.81	4,723.75	-44.09	4,723.95	0.00	0.00	0.00
7,700.00	90.50	358.52	3,057.93	4,823.71	-46.67	4,823.93	0.00	0.00	0.00
7,720.50	90.50	358.52	3,057.75	4,844.20	-47.20	4,844.43	0.00	0.00	0.00

TD at 7720.50 - PBHL-Bradley 8 #4H

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-Bradley 8 #4H	0.00	0.00	3,057.75	4,844.20	-47.20	611,644.20	480,020.60	32° 40' 53.37342 N	104° 23' 53.76829 W
- plan hits target center									
- Point									
PP-Bradley 8 #4H	0.00	0.00	3,084.73	413.00	39.77	607,213.00	480,107.57	32° 40' 9.52430 N	104° 23' 52.71915 W
- plan hits target center									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,384.52	3,095.55	TL, 3100' TVD @ 0 VZ, 90.5° Inc		-0.50	359.44

Plan Annotations

Measured	Vertical	Local Coordinates		Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
2,574.75	2,574.75	0.00	0.00	KOP, 11"/100' Build
3,397.48	3,095.60	523.00	50.36	LP, Begin 3"/100' Turn
3,630.17	3,093.56	755.39	58.51	Hold 90.5° Inc, 358.52° Azm
7,720.50	3,057.75	4,844.20	-47.20	TD at 7720.50



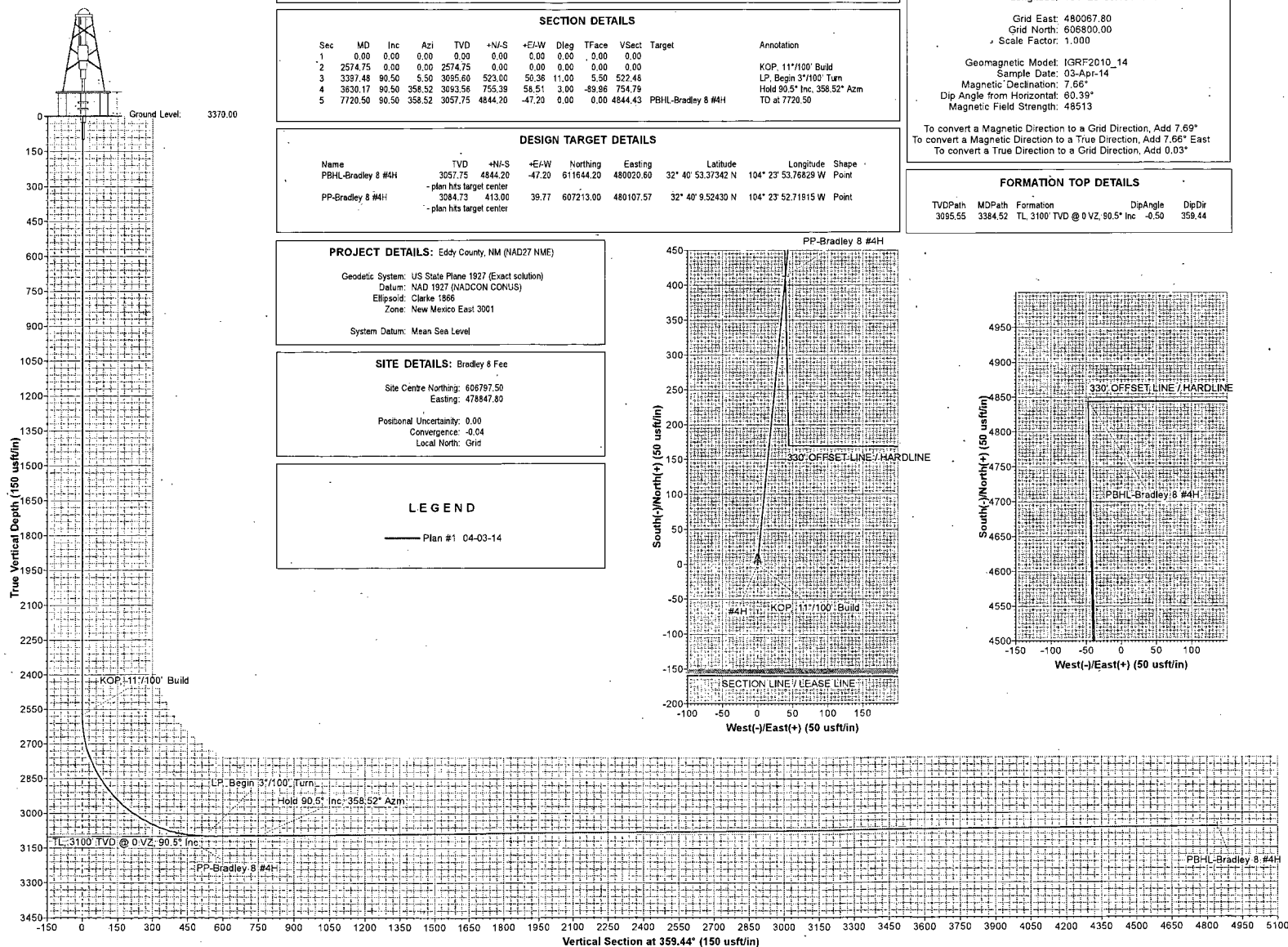
Project: Eddy County, NM (NAD27 NME)
Site: Bradley 8 Fee
Well: #4H
Wellbore: WB1
Design: Plan #1 04-03-14



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.04°
Magnetic North: 7.69°
Magnetic Field
Strength: 48512.75nT
Dip Angle: 60.39°
Date: 04/03/2014
Model: IGRF2010_14



WELL DETAILS									
+N-S	+E-W	Northing	Ground Level	Easting	Latitude	Longitude			
0.00	0.00	606800.00	3370.00	480067.80	32° 40' 5.43715 N	104° 23' 53.18144 W			

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2574.75	0.00	0.00	2574.75	0.00	0.00	0.00	0.00	0.00
3	3397.48	90.50	5.50	3095.60	523.00	50.38	11.00	5.50	522.48
4	3630.17	90.50	358.52	3093.56	755.39	58.51	3.00	-89.96	754.79
5	7720.50	90.50	358.52	3057.75	4844.20	-47.20	0.00	0.00	4844.43

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL-Bradley 8 #4H	3057.75	4844.20	-47.20	611644.20	480020.60	32° 40' 53.37342 N	104° 23' 53.76829 W	Point	
									- plan hits target center
PP-Bradley 8 #4H	3084.73	413.00	39.77	607213.00	480107.57	32° 40' 9.52430 N	104° 23' 52.71915 W	Point	
									- plan hits target center

PROJECT DETAILS: Eddy County, NM (NAD27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Bradley 8 Fee

Site Centre Northing: 606797.50
Easting: 478847.80

Positional Uncertainty: 0.00
Convergence: -0.04
Local North: Grid

LEGEND

Plan #1 04-03-14

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Local Origin: Well #4H, Grid North

Latitude: 32° 40' 5.43715 N
Longitude: 104° 23' 53.18144 W

Grid East: 480067.80
Grid North: 606800.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 03-Apr-14
Magnetic Declination: 7.66°
Dip Angle from Horizontal: 60.39°
Magnetic Field Strength: 48513

To convert a Magnetic Direction to a Grid Direction, Add 7.66°
To convert a Magnetic Direction to a True Direction, Add 7.66° East
To convert a True Direction to a Grid Direction, Add 0.03°

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
3095.55	3384.52	TL 3100' TVD @ 0 VZ 90.5° Inc	-8.50	359.44

