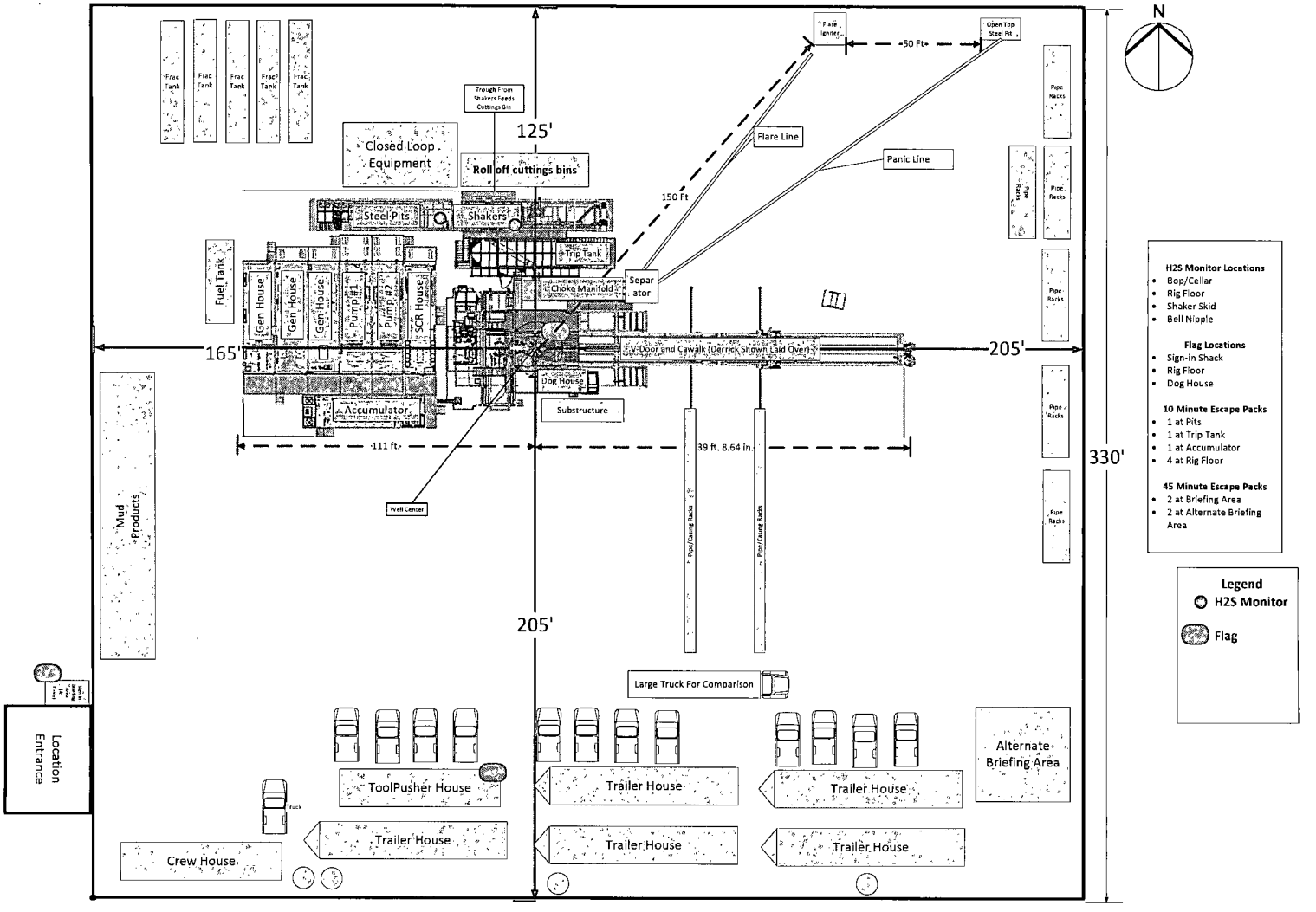
30-025-42060

Ensign 153: Gramma Ridge 14-24-34 8H Pad Layout (330' x 370')



BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : **5,000 psi**

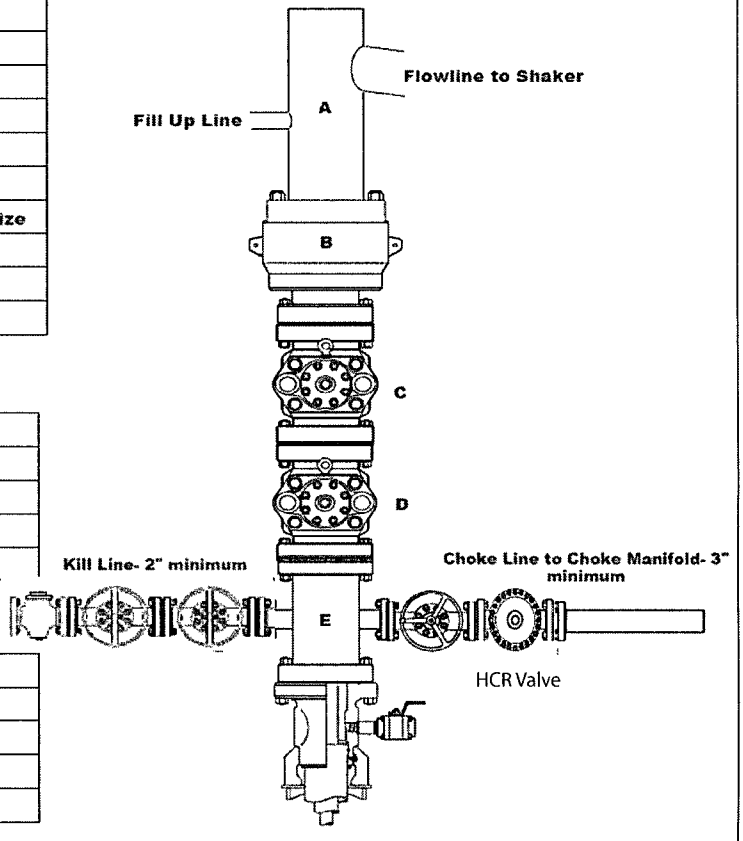
	SIZE	PRESSURE	DESCRIPTION
A		N/A	Bell Nipple
B	13 5/8"	5,000 psi	Annular
C	13 5/8"	5,000 psi	Pipe Ram
D	13 5/8"	5,000 psi	Blind Ram
E	13 5/8"	5,000 psi	Mud Cross
F			
DSA		As required for each hole size	
C-Sec			
B-Sec		13-5/8" 5K x 11" 5K	
A-Sec		13-3/8" SOW x 13-5/8" 5K	

Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	5,000 psi	Gate Valve
2"	5,000 psi	Gate Valve
2"	5,000 psi	Check Valve

Choke Line

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Gate Valve
3"	5,000 psi	HCR Valve



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ **The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.**
- ☐ **All valves on the kill line and choke line will be full opening and will allow straight though flow.**
- ☐ **The kill line and choke line will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration.**
- ☐ **Manual (hand wheels) or automatic locking devices will be installed on all ram preventers. Hand wheels will also be installed on all manual valves on the choke line and kill line.**
- ☐ **A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will remain open unless accumulator is inoperative.**
- ☐ **Upper kelly cock valve with handle will be available on rig floor along with safety valve and subs to fit all drill string connections in use.**

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

CHOKE MANIFOLD SCHEMATIC

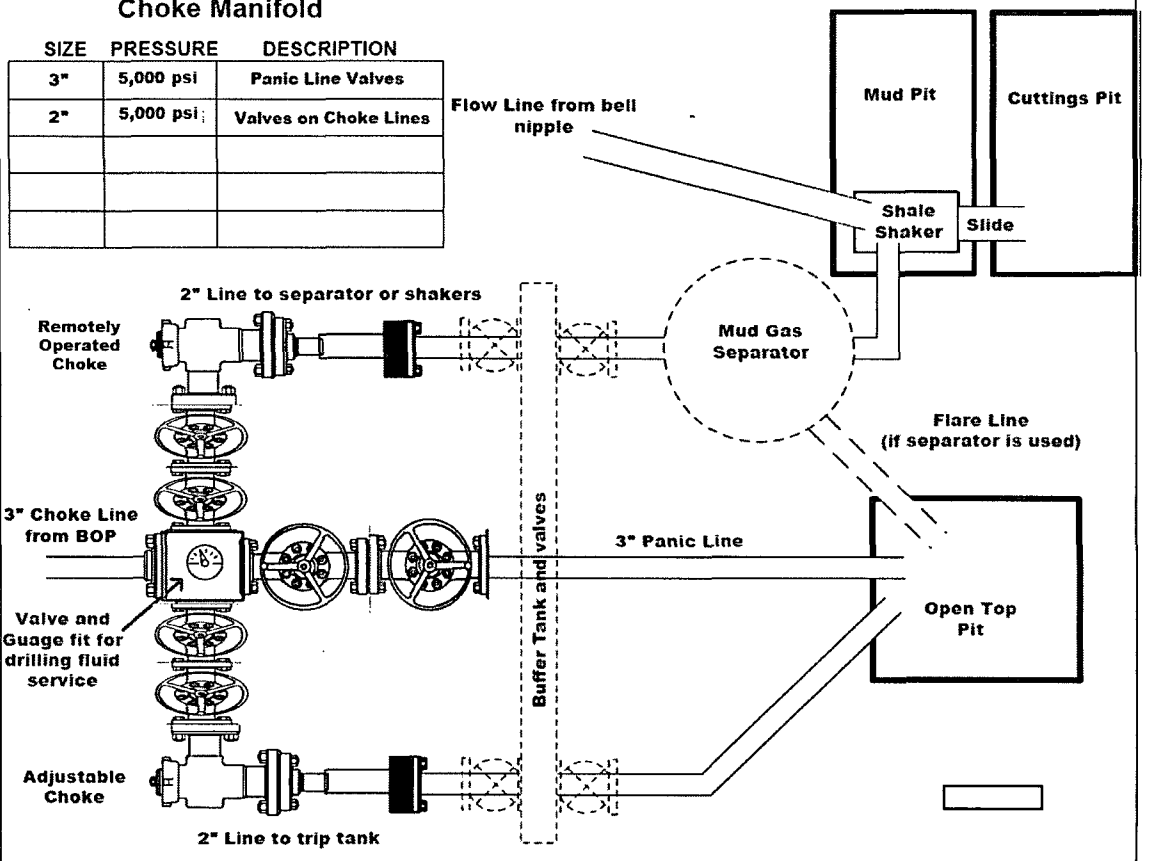
Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : **5,000 psi**

Choke Manifold

SIZE	PRESSURE	DESCRIPTION
3"	5,000 psi	Panic Line Valves
2"	5,000 psi	Valves on Choke Lines



Installation Checklist

The following item must be verified and checked off prior to pressure testing of BOP equipment.

- ☐ **The installed BOP equipment meets at least the minimum requirements (rating, type, size, configuration) as shown on this schematic. Components may be substituted for equivalent equipment rated to higher pressures. Additional components may be put into place as long as they meet or exceed the minimum pressure rating of the system.**
- ☐ **Adjustable Chokes may be Remotely Operated but will have backup hand pump for hydraulic actuation in case of loss of rig air pressure or power.**
- ☐ **Flare and Panic lines will terminate a minimum of 150' from the wellhead. These lines will terminate at a location as per approved APD.**
- ☐ **The choke line, kill line, and choke manifold lines will be straight unless turns use tee blocks or are targeted with running tess, and will be anchored to prevent whip and reduce vibration. This excludes the line between mud gas separator and shale shaker.**
- ☐ **All valves (except chokes) on choke line, kill line, and choke manifold will be full opening and will allow straight through flow. This excludes any valves between mud gas separator and shale shakers.**
- ☐ **All manual valves will have hand wheels installed.**
- ☐ **If used, flare system will have effective method for ignition**
- ☐ **All connections will be flanged, welded, or clamped (no threaded connections like hammer unions)**
- ☐ **If buffer tank is used, a valve will be used on all lines at any entry or exit point to or from the buffer tank.**

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname: _____

Representative: _____

Date: _____

BOPE Testing

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

☐ **Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.**

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	Minimum acceptable precharge pressure
☐	1500 psi	1500 psi	750 psi	800 psi	700 psi
☐	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
☐	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

☐ **Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well**

☐ **Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservior capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.**

☐ **Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.**

☐ **Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.**

☐ **With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.**

☐ **Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)**

☐ **Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.**

☐ **Record accumulator tests in drilling reports and IADC sheet**

BOPE Test Checklist

The following item must be checked off prior to beginning test

☐ **BLM will be given at least 4 hour notice prior to beginning BOPE testing**

☐ **Valve on casing head below test plug will be open**

☐ **Test will be performed using clear water.**

The following item must be performed during the BOPE testing and then checked off

☐ **BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 days intervals. Test pressure and times will be recorded by a 3rd party on a test chart and kept on location through the end of the well.**

☐ **Test plug will be used**

☐ **Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).**

☐ **Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).**

☐ **Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill line valve(s)**

☐ **Each pressure test will be held for 10 minutes with no allowable leak off.**

☐ **Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOP testing**

☐ **Record BOP tests and pressures in drilling reports and IADC sheet**

After installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer along with any/all BOP and accumulator test charts and reports from 3rd parties.

Wellname: _____

Representative: _____

Date: _____

Project: Lea County NM (NAD27 NME)
Site: Gramma Ridge 14-24-34
Well: #8H
Wellbore: WB1
Design: Plan #1 07-25-14
Rig: Ensign 153

Azimuths to Grid North
True North: -0.48°
Magnetic North: 6.67°

Magnetic Field
Strength: 48327.8snT
Dip Angle: 60.13°
Date: 06/24/2014
Model: IGRF2010_14

WELL DETAILS

Ground Level: 3457.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	446283.00	778437.00	32° 13' 25.47118 N	103° 25' 58.64493 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	11585.54	0.00	0.00	11585.54	0.00	0.00	0.00	0.00	0.00		
3	12335.54	90.00	182.97	12063.00	-476.82	-24.71	12.00	182.97	477.46		
4	16533.34	90.00	182.97	12063.00	-4669.00	-242.00	0.00	0.00	4675.27	PBHL-GR 14-24-34 #8H	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL-GR 14-24-34 #8H	12063.00	-4669.00	-242.00	441614.00	778195.00	32° 12' 39.29069 N	103° 26' 1.91671 W	Point
	- plan hits target center							

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 #8H, Grid North

Latitude: 32° 13' 25.47118 N
Longitude: 103° 25' 58.64493 W

Grid East: 778437.00
Grid North: 446283.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2010_14
Sample Date: 24-Jun-14
Magnetic Declination: 7.15°
Dip Angle from Horizontal: 60.13°
Magnetic Field Strength: 48328

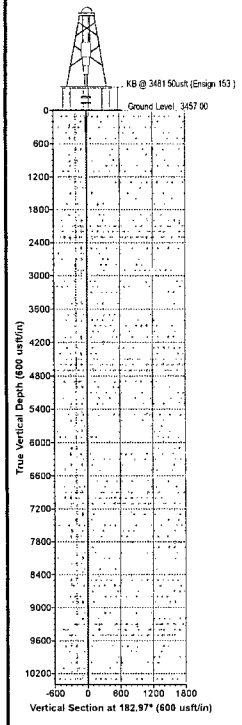
To convert a Magnetic Direction to a Grid Direction, Add 6.67°
To convert a Magnetic Direction to a True Direction, Add 7.15° East
To convert a True Direction to a Grid Direction, Subtract 0.48°

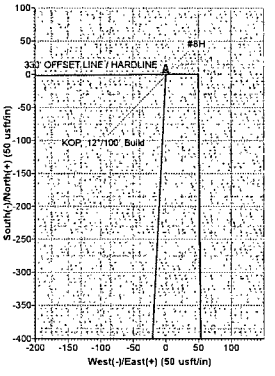
FORMATION TOP DETAILS

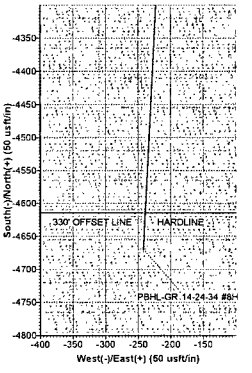
TVDPath	MDPath	Formation	DipAngle	DipDir
12063.00	12335.54	TL 12063' TVD @ 0° VS w/90° Inc	0.00	182.97

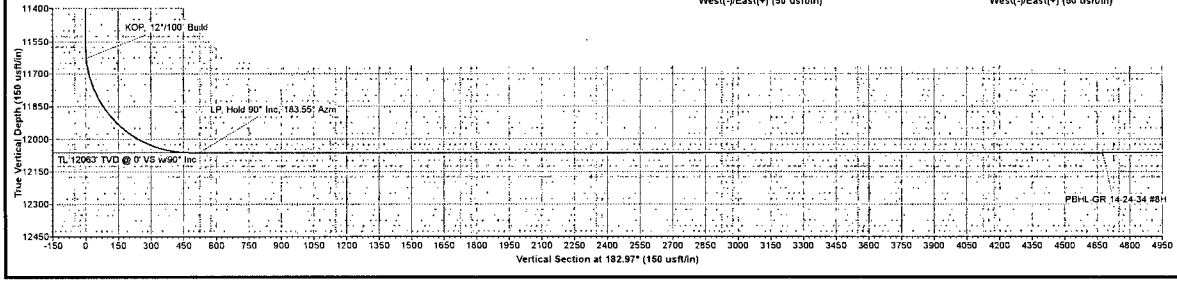
LEGEND

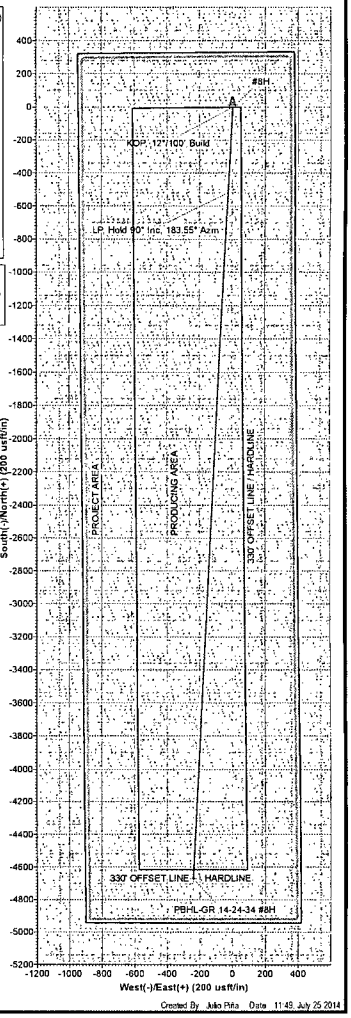
Plan #1 07-25-14











Created By: Julio Pena Date: 11:49, July 25 2014

Chevron

Lea County NM (NAD27 NME)
Gramma Ridge 14-24-34
#8H

WB1

Plan: Plan #1 07-25-14

Standard Planning Report

25 July, 2014

Phoenix Technology Services

Planning Report

Database:	GCR DB	**Local Co-ordinate Reference:**	Well #8H
Company:	Chevron	**TVD Reference:**	KB @ 3481.50usft (Ensign 153)
Project:	Lea County NM (NAD27 NME)	**MD Reference:**	KB @ 3481.50usft (Ensign 153)
Site:	Gramma Ridge 14-24-34	**North Reference:**	Grid
Well:	#8H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 07-25-14		

Project Lea 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 Gramma Ridge 14-24-34

Site Position:		**Northing:**	446,243.20 usft	**Latitude:**	32° 13' 25.45288 N
From:	Map	**Easting:**	773,870.90 usft	**Longitude:**	103° 26' 51.79837 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.47 °

Well #8H

Well Position	**+N/-S**	39.80 usft	**Northing:**	446,283.00 usft	**Latitude:**	32° 13' 25.47118 N
	+E/-W	4,566.10 usft	**Easting:**	778,437.00 usft	**Longitude:**	103° 25' 58.64493 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,457.00 usft

Wellbore WB1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	06/24/14	7.15	60.13	48,328

Design Plan #1 07-25-14

Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	182.97

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,585.54	0.00	0.00	11,585.54	0.00	0.00	0.00	0.00	0.00	0.00	
12,335.54	90.00	182.97	12,063.00	-476.82	-24.71	12.00	12.00	0.00	182.97	
16,533.34	90.00	182.97	12,063.00	-4,669.00	-242.00	0.00	0.00	0.00	0.00	PBHL-GR 14-24-34 #

Database:	GCR DB	**Local Co-ordinate Reference:**	Well #8H
Company:	Chevron	**TVD Reference:**	KB @ 3481.50usft (Ensign 153)
Project:	Lea County NM (NAD27 NME)	**MD Reference:**	KB @ 3481.50usft (Ensign 153')
Site:	Gramma Ridge 14-24-34	**North Reference:**	Grid
Well:	#8H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 07-25-14		

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
11,585.54	0.00	0.00	11,585.54	0.00	0.00	0.00	0.00	0.00	0.00
11,600.00	1.74	182.97	11,600.00	-0.22	-0.01	0.22	12.00	12.00	0.00
11,628.54	5.16	182.97	11,628.48	-1.93	-0.10	1.94	12.00	12.00	0.00
KOP, 12°/100' Build									
11,700.00	13.74	182.97	11,698.91	-13.64	-0.71	13.66	12.00	12.00	0.00
11,800.00	25.74	182.97	11,792.86	-47.30	-2.45	47.36	12.00	12.00	0.00
11,900.00	37.74	182.97	11,877.75	-99.73	-5.17	99.87	12.00	12.00	0.00
12,000.00	49.74	182.97	11,949.88	-168.65	-8.74	168.87	12.00	12.00	0.00
12,100.00	61.74	182.97	12,006.07	-251.03	-13.01	251.37	12.00	12.00	0.00
12,200.00	73.74	182.97	12,043.89	-343.28	-17.79	343.74	12.00	12.00	0.00
12,300.00	85.74	182.97	12,061.68	-441.37	-22.88	441.96	12.00	12.00	0.00
12,335.54	90.00	182.97	12,063.00	-476.82	-24.71	477.46	12.00	12.00	0.00
TL 12063' TVD @ 0' VS w/90° Inc									
12,378.54	90.00	182.97	12,063.00	-519.77	-26.94	520.47	0.00	0.00	0.00
LP, Hold 90° Inc, 183.55° Azm									
12,400.00	90.00	182.97	12,063.00	-541.20	-28.05	541.93	0.00	0.00	0.00
12,500.00	90.00	182.97	12,063.00	-641.07	-33.23	641.93	0.00	0.00	0.00
12,600.00	90.00	182.97	12,063.00	-740.94	-38.40	741.93	0.00	0.00	0.00
12,700.00	90.00	182.97	12,063.00	-840.80	-43.58	841.93	0.00	0.00	0.00
12,800.00	90.00	182.97	12,063.00	-940.67	-48.76	941.93	0.00	0.00	0.00
12,900.00	90.00	182.97	12,063.00	-1,040.53	-53.93	1,041.93	0.00	0.00	0.00
13,000.00	90.00	182.97	12,063.00	-1,140.40	-59.11	1,141.93	0.00	0.00	0.00
13,100.00	90.00	182.97	12,063.00	-1,240.26	-64.28	1,241.93	0.00	0.00	0.00
13,200.00	90.00	182.97	12,063.00	-1,340.13	-69.46	1,341.93	0.00	0.00	0.00
13,300.00	90.00	182.97	12,063.00	-1,440.00	-74.64	1,441.93	0.00	0.00	0.00
13,400.00	90.00	182.97	12,063.00	-1,539.86	-79.81	1,541.93	0.00	0.00	0.00
13,500.00	90.00	182.97	12,063.00	-1,639.73	-84.99	1,641.93	0.00	0.00	0.00
13,600.00	90.00	182.97	12,063.00	-1,739.59	-90.17	1,741.93	0.00	0.00	0.00
13,700.00	90.00	182.97	12,063.00	-1,839.46	-95.34	1,841.93	0.00	0.00	0.00
13,800.00	90.00	182.97	12,063.00	-1,939.33	-100.52	1,941.93	0.00	0.00	0.00
13,900.00	90.00	182.97	12,063.00	-2,039.19	-105.69	2,041.93	0.00	0.00	0.00
14,000.00	90.00	182.97	12,063.00	-2,139.06	-110.87	2,141.93	0.00	0.00	0.00
14,100.00	90.00	182.97	12,063.00	-2,238.92	-116.05	2,241.93	0.00	0.00	0.00
14,200.00	90.00	182.97	12,063.00	-2,338.79	-121.22	2,341.93	0.00	0.00	0.00
14,300.00	90.00	182.97	12,063.00	-2,438.66	-126.40	2,441.93	0.00	0.00	0.00
14,400.00	90.00	182.97	12,063.00	-2,538.52	-131.57	2,541.93	0.00	0.00	0.00
14,500.00	90.00	182.97	12,063.00	-2,638.39	-136.75	2,641.93	0.00	0.00	0.00
14,600.00	90.00	182.97	12,063.00	-2,738.25	-141.93	2,741.93	0.00	0.00	0.00
14,700.00	90.00	182.97	12,063.00	-2,838.12	-147.10	2,841.93	0.00	0.00	0.00
14,800.00	90.00	182.97	12,063.00	-2,937.99	-152.28	2,941.93	0.00	0.00	0.00
14,900.00	90.00	182.97	12,063.00	-3,037.85	-157.46	3,041.93	0.00	0.00	0.00
15,000.00	90.00	182.97	12,063.00	-3,137.72	-162.63	3,141.93	0.00	0.00	0.00
15,100.00	90.00	182.97	12,063.00	-3,237.58	-167.81	3,241.93	0.00	0.00	0.00
15,200.00	90.00	182.97	12,063.00	-3,337.45	-172.98	3,341.93	0.00	0.00	0.00
15,300.00	90.00	182.97	12,063.00	-3,437.32	-178.16	3,441.93	0.00	0.00	0.00
15,400.00	90.00	182.97	12,063.00	-3,537.18	-183.34	3,541.93	0.00	0.00	0.00
15,500.00	90.00	182.97	12,063.00	-3,637.05	-188.51	3,641.93	0.00	0.00	0.00
15,600.00	90.00	182.97	12,063.00	-3,736.91	-193.69	3,741.93	0.00	0.00	0.00
15,700.00	90.00	182.97	12,063.00	-3,836.78	-198.86	3,841.93	0.00	0.00	0.00
15,800.00	90.00	182.97	12,063.00	-3,936.65	-204.04	3,941.93	0.00	0.00	0.00
15,900.00	90.00	182.97	12,063.00	-4,036.51	-209.22	4,041.93	0.00	0.00	0.00
16,000.00	90.00	182.97	12,063.00	-4,136.38	-214.39	4,141.93	0.00	0.00	0.00

Database:	GCR DB	**Local Co-ordinate Reference:**	Well #8H
Company:	Chevron	**TVD Reference:**	KB @ 3481.50usft (Ensign 153)
Project:	Lea County NM (NAD27 NME)	**MD Reference:**	KB @ 3481.50usft (Ensign 153)
Site:	Gramma Ridge 14-24-34	**North Reference:**	Grid
Well:	#8H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 07-25-14		

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)
16,100.00	90.00	182.97	12,063.00	-4,236.24	-219.57	4,241.93	0.00	0.00	0.00
16,200.00	90.00	182.97	12,063.00	-4,336.11	-224.75	4,341.93	0.00	0.00	0.00
16,300.00	90.00	182.97	12,063.00	-4,435.98	-229.92	4,441.93	0.00	0.00	0.00
16,400.00	90.00	182.97	12,063.00	-4,535.84	-235.10	4,541.93	0.00	0.00	0.00
16,500.00	90.00	182.97	12,063.00	-4,635.71	-240.27	4,641.93	0.00	0.00	0.00
16,533.34	90.00	182.97	12,063.00	-4,669.00	-242.00	4,675.27	0.00	0.00	0.00
PBHL-GR 14-24-34 #8H									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-GR 14-24-34 #8H - plan hits target center - Point	0.00	0.01	12,063.00	-4,669.00	-242.00	441,614.00	778,195.00	32° 12' 39.29069 N	103° 26' 1.91671 W

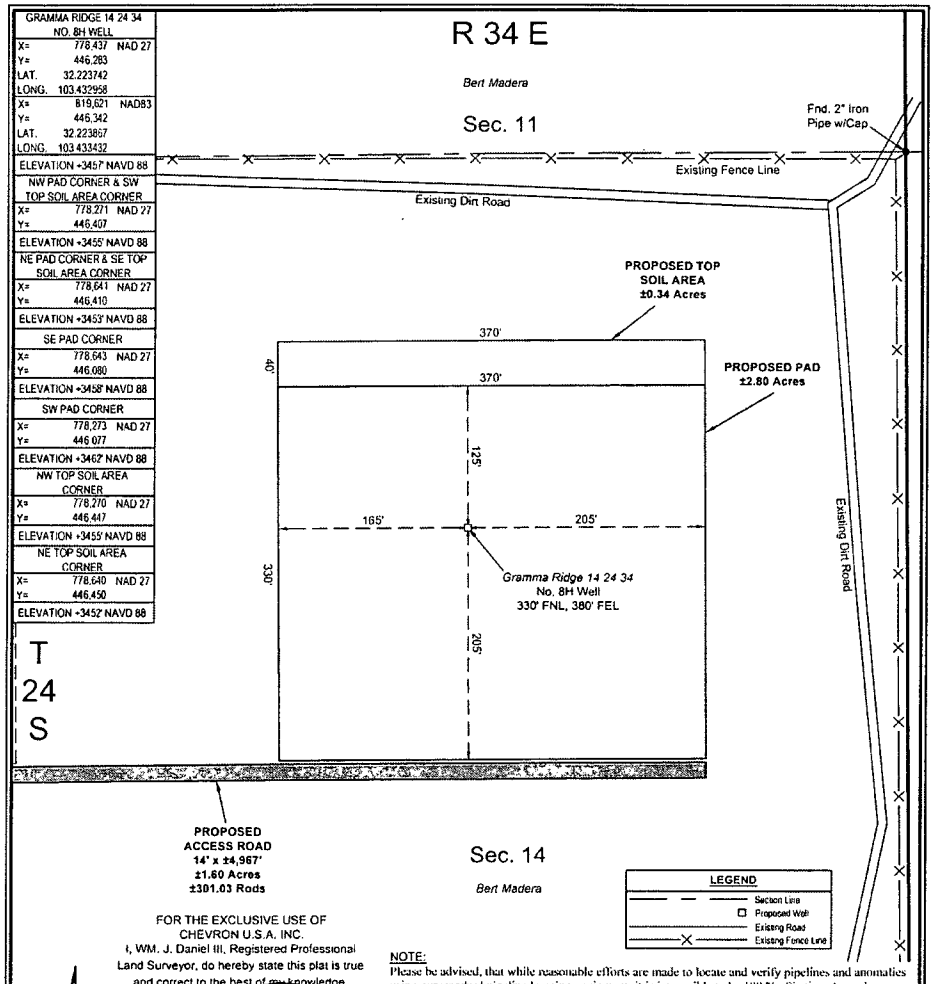
Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
12,335.54	12,063.00	TL 12063' TVD @ 0' VS w/90° Inc		0.00	182.97

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
11,628.54	11,628.48	-1.93	-0.10	KOP, 12°/100' Build
12,378.54	12,063.00	-519.77	-26.94	LP, Hold 90° Inc, 183.55° Azm
16,578.06				TD at 16578.07' MD

GRAMMA RIDGE 14 24 34 NO. 8H WELL		
X=	778,437	NAD 27
Y=	446,283	
LAT.	32.223742	
LONG.	103.432958	
X=	819,621	NAD83
Y=	446,342	
LAT.	32.223867	
LONG.	103.433432	
ELEVATION +3457' NAVD 88		
NW PAD CORNER & SW TOP SOIL AREA CORNER		
X=	778,271	NAD 27
Y=	446,407	
ELEVATION +3455' NAVD 88		
NE PAD CORNER & SE TOP SOIL AREA CORNER		
X=	778,641	NAD 27
Y=	446,410	
ELEVATION +3453' NAVD 88		
SE PAD CORNER		
X=	778,643	NAD 27
Y=	446,080	
ELEVATION +3458' NAVD 88		
SW PAD CORNER		
X=	778,273	NAD 27
Y=	446,077	
ELEVATION +3462' NAVD 88		
NW TOP SOIL AREA CORNER		
X=	778,270	NAD 27
Y=	446,447	
ELEVATION +3455' NAVD 88		
NE TOP SOIL AREA CORNER		
X=	778,640	NAD 27
Y=	446,450	
ELEVATION +3452' NAVD 88		



FOR THE EXCLUSIVE USE OF
CHEVRON U.S.A. INC.
I, WM. J. Daniel III, Registered Professional Land Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

NAD 27 NEW MEXICO EAST ZONE

NOTE:
Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:
Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance, New Mexico One Call, www.nmonecall.org.

DISCLAIMER: At this time, C.H. Fenstermaker & Associates, LLC has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk.

SURFACE USE PLAT

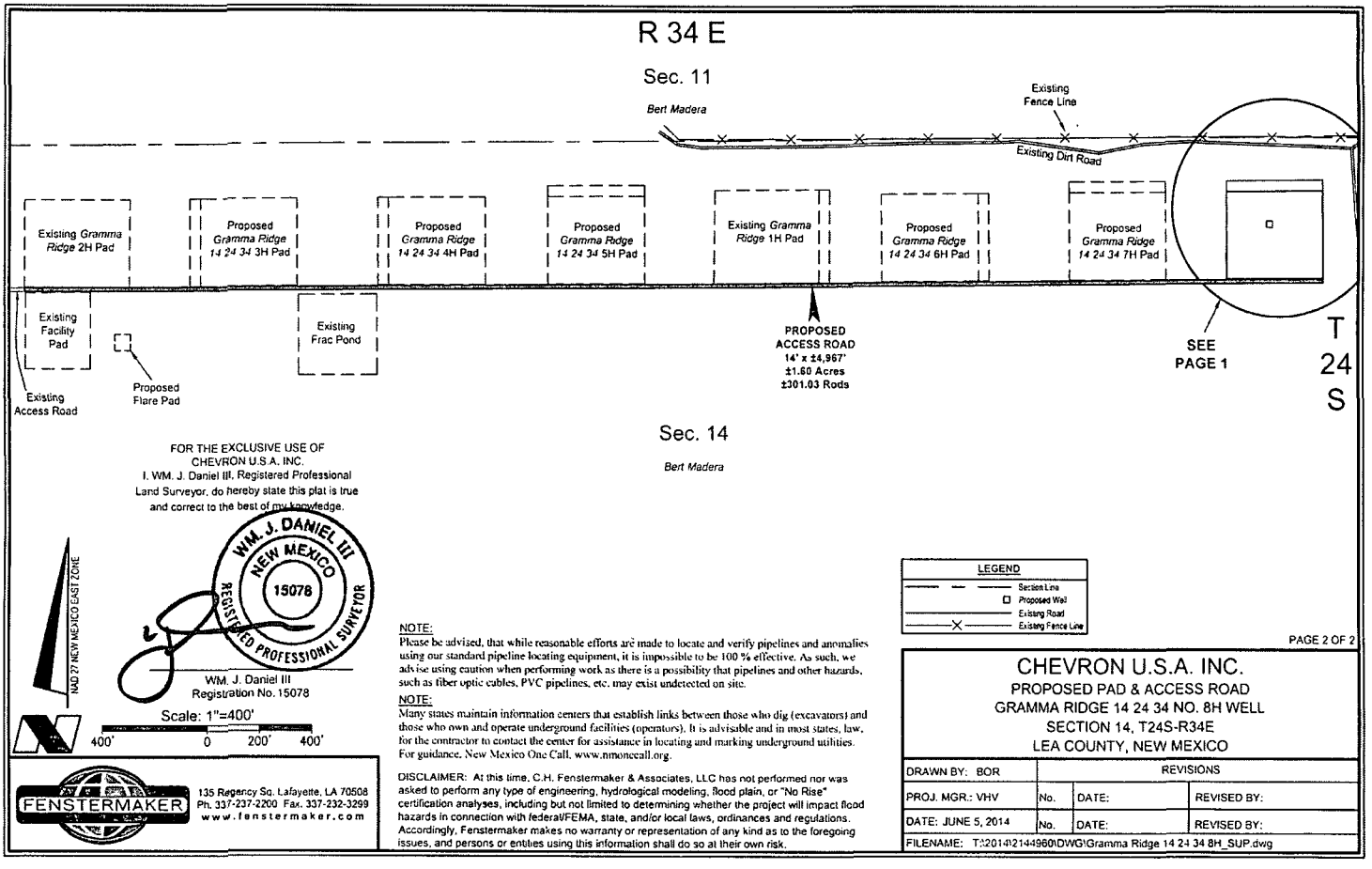
Scale: 1"=100'
100' 0 50' 100'

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
GRAMMA RIDGE 14 24 34 NO. 8H WELL
SECTION 14, T24S-R34E
LEA COUNTY, NEW MEXICO

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: JUNE 5, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\2144960\DWG\Gramma Ridge 14 24 34 8H_SUP.dwg			



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WM. J. DANIEL III NEW MEXICO 15078 REGISTERED PROFESSIONAL SURVEYOR

WM. J. Daniel III
Registration No. 15078

NAD 27 NEW MEXICO EAST ZONE

Scale: 1"=400'

400' 0 200' 400'

FENSTERMAKER
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
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LEGEND
- Section Line
- Proposed Well
- Existing Road
- Existing Fence Line

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
GRAMMA RIDGE 14 24 34 NO. 8H WELL
SECTION 14, T24S-R34E
LEA COUNTY, NEW MEXICO

DRAWN BY: BOR	REVISIONS		
PROJ. MGR.: VHV	No.	DATE:	REVISED BY:
DATE: JUNE 5, 2014	No.	DATE:	REVISED BY:
FILENAME: T:\2014\21449601\DWG\Gramma Ridge 14 24 34 8H_SUP.dwg			