Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM114968

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
HH CE 35 2 FED 63H

2. Name of Operator
CHEVRON USA INCORPORATED
Contact: DORIAN K FUENTES
E-Mail: djvo@chevron.com

9. API Well No.
30-015-44350-00-X1

3a. Address
6301 DEAUVILLE BLVD
MIDLAND, TX 79706

3b. Phone No. (include area code)
Ph: 432-687-7631

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 35 T25S R27E NESE 2465FSL 475FEL
32.085710 N Lat, 104.153758 W Lon

11. County or Parish, State
EDDY 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original A PD
	☐ 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 recomplete 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 recompletion 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.*

Chevron respectfully request a variance from the original directional plan, which will change the first, last take points, and bottom hole location. The original directional plan was bi-directional (N&S), but with the updated targets given by CVX geologist, the well path will be drilled to the South.

Chevron also respectfully request well name & number change from HH CE 35 2 FED 63H to HH CE 35 2 FED 006 3H as referenced in the Sundry. 320468

BHL from 280 S & 330 E to 180 S & 750 E
FTP from 2640 S & 330 E to 2652 S & 750 E
LTP from 330 S & 330 E to 330 S & 750 E

Carlsbad Field Office
OCD Artesia

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 29 2017

RECEIVED

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

Electronic Submission #386736 verified by the BLM Well Information System
For CHEVRON USA INCORPORATED, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/02/2017 (18PP0016SE)

Name *(Printed/Typed)* DORIAN K FUENTES — Title REGULATORY SPECIALIST

Signature (Electronic Submission) — Date 08/30/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS — Title PETROLEUM ENGINEER — Date 11/19/2017

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.

Office Carlsbad

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RP 12-5-17

Additional data for EC transaction #386736 that would not fit on the form

32. Additional remarks, continued

Please refer to the attachments.
Should questions arise, please contact me @ djvo@chevron.com or Rod @ 281-413-9794.

Delaware Basin
Changes to APD for Federal Well

HH CE 35 2 FED 006	1H	30-015-44347
HH CE 35 2 FED 006	2H	30-015- 44346
HH CE 35 2 FED 006	3H	30-015- 44350
HH CE 35 2 FED 006	4H	30-015- 44349
HH CE 35 2 FED 006	5H	30-015- 44345
HH CE 35 2 FED 006	6H	30-015- 44348

CHEVRON CONTACT:

RODERICK MILLIGAN
DRILLING ENGINEER
1400 SMITH ST.
HOUSTON, TX 77002

DESK: HOU140/43-130
CELL: 281-413-9794
EMAIL: RODERICK.MILLIGAN@CHEVRON.COM

District II
811 S [illegible] tesia, NM 88
Phone: (575) [illegible] Fax: (575) 74
District III
1000 R[illegible] A[illegible]N[illegible]B
Phone: (505) [illegible] Fax: (505) 334
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015-44350	98220	PURPLE SAGE; WOLFCAMP (GAS)

4 Property Code	5 Property Name	6 Well Number
318938 320468	HH CE 35 02 FED 006	3H

7 OGRID No.	8 Operator Name	9 Elevation
4323	CHEVRON U.S.A. INC.	3145'

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
I	35	25 SOUTH	27 EAST, N.M.P.M.		2465'	SOUTH	475'	EAST	EDDY

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
P	2	26 SOUTH	27 EAST, N.M.P.M.		180'	SOUTH	750'	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640			

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.

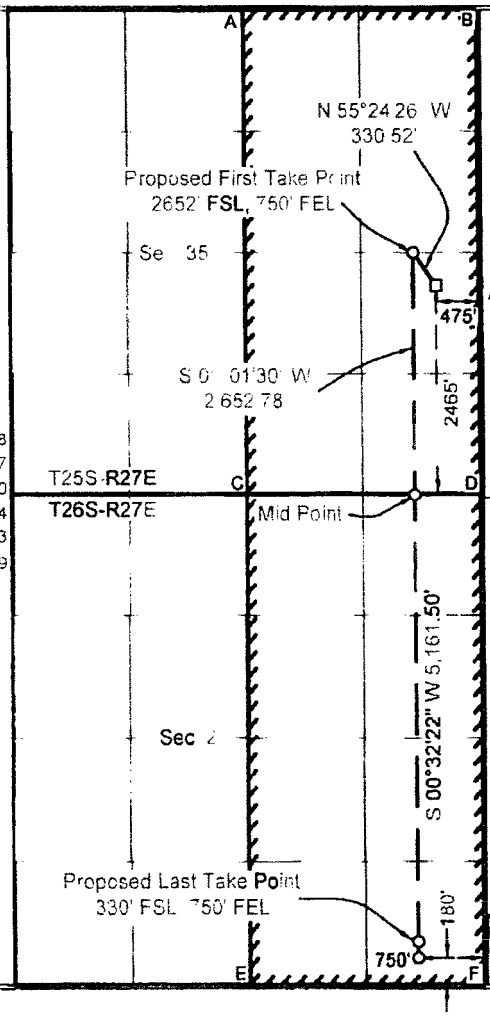
PROPOSED FIRST TAKE POINT		
X=	555,496	NAD 27
Y=	395,095	
LAT	32.086105	
LONG	104.154144	
X=	596,660	NAD83
Y=	395,152	
LAT	32.086227	
LONG	104.154636	
MID POINT		
X=	555,448	NAD 27
Y=	392,443	
LAT	32.078814	
LONG	104.154311	
X=	596,632	NAD83
Y=	392,500	
LAT	32.078936	
LONG	104.154803	
PROPOSED LAST TAKE POINT		
X=	555,401	NAD 27
Y=	387,432	
LAT	32.065038	
LONG	104.154490	
X=	596,565	NAD83
Y=	387,489	
LAT	32.065161	
LONG	104.154982	

HH CE 35 02 FED 006 NO 3H WELL		
X=	555,768	NAD 27
Y=	394,907	
LAT	32.085588	
LONG	104.153261	
X=	596,952	NAD83
Y=	394,96	
LAT	32.08[illegible]	
LONG	104.153758	
ELEVATION +3145 NAVD 88		

CORNER COORDINATES TABLE (NAD Z

A Y=397933.25 X=555[illegible]12.88
B Y=397744.51 X=556293.47
C Y=392440.46 X=553545.40
D Y=392443.13 X=556198.44
E Y=387033.94 X=553481.53
F Y=387127.27 X=556248.39

PROPOSED BOTTOM HOLE LOCATION		
X=	555,400	NAD 27
Y	387,281	
LAT	32.064626	
LONG	104.154496	
X=	596,584	NAD83
Y=	387,339	
LAT	32.064748	
LONG	104.154987	



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 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.

Signature — Date: 8/24/17

Printed Name

E-mail Address

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 belief.

11-10-2016
Date of Survey

Signature and Seal of Professional Surveyor:

8-22-2017

Certificate Number

Chevron

Project: Eddy County, NM (NAD27 NME)
Site: HH CE 35 02 Fed 006
Well: 3H
Wellbore: OH
Design: Plan 3 11-06-17
Rig:

PHOENIX TECHNOLOGY SERVICES

Azimuths to Grid North
True North: -0.10°
Magnetic North: 7.20°

Magnetic Field
Strength: 47990.5snT
Dip Angle: 59.83°
Date: 12/6/2017
Model: HDGM

WELL DETAILS

Ground Level: 3145.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	394907.00	555768.00	32° 5' 8.11380 N	104° 9' 11.75811 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	2056.00	0.00	0.00	2056.00	0.00	0.00	0.00	0.00	0.00		KOP1, Begin 2.00°/100' Build
3	2308.10	5.04	304.65	2307.77	6.30	-9.12	2.00	304.65	-5.86		Hold 5.04° Inc at 304.65° Azm
4	5618.14	5.04	304.65	5804.23	181.70	-262.88	0.00	0.00	-168.82		Begin 2.00°/100' Drop
5	6070.23	0.00	0.00	6056.00	188.00	-272.00	2.00	180.00	-174.67		Begin Vertical Hold
6	9401.73	0.00	0.00	9387.50	188.00	-272.00	0.00	0.00	-174.67		KOP2, Begin 11.00°/100' Build
7	10216.53	89.63	181.04	9908.36	-329.40	-281.37	11.00	181.04	342.58		LP, Hold 89.63° Inc at 181.04° Azm
8	11544.58	89.63	181.04	9917.00	-1657.21	-305.40	0.00	0.00	1670.00	IP1 - HH CE 35 02 Fed 006 3H	Begin 2.00°/100' Build
9	11636.48	91.47	181.04	9916.12	-1749.09	-307.06	2.00	0.00	1761.86		Hold 91.47° Inc
10	12306.16	91.47	181.04	9899.00	-2418.43	-319.18	0.00	0.00	2431.00	MPv3 - HH CE 35 02 Fed 006 3H	Begin 2.00°/100' Drop & Turn
11	12357.32	90.56	180.57	9898.10	-2469.59	-319.90	2.00	-152.60	2482.13		Hold 90.56° Inc at 180.57° Azm
12	13808.33	90.56	180.57	9884.00	-3920.45	-334.23	0.00	0.00	3932.00	IP3 - HH CE 35 02 Fed 006 3H	Begin 2.00°/100' Build & Turn
13	13839.48	91.18	180.52	9883.53	-3951.60	-334.53	2.00	-4.09	3963.13		Hold 91.18° Inc at 180.52° Azm
14	14789.28	91.18	180.52	9864.00	-4901.16	-343.17	0.00	0.00	4912.00	IP4 - HH CE 35 02 Fed 006 3H	Begin 2.00°/100' Drop
15	14843.59	90.09	180.52	9863.40	-4955.46	-343.66	2.00	179.97	4966.27		Hold 90.09° Inc
16	16337.47	90.09	180.52	9861.00	-6449.28	-357.28	0.00	0.00	6459.00	IP5 - HH CE 35 02 Fed 006 3H	Begin 2.00°/100' Build
17	16340.18	90.15	180.52	9860.99	-6451.99	-357.30	2.00	-0.27	6461.71		Hold 90.15° Inc
18	17514.25	90.15	180.52	9858.00	-7626.00	-368.00	0.00	0.00	7634.87	BHLv3 - HH CE 35 02 Fed 006 3H	TD at 17514.25

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTPv3 - HH CE 35 02 Fed 006 3H	9854.60	-7475.00	-367.00	387432.00	555401.00	32° 3' 54.14298 N	104° 9' 16.16809 W
BHLv3 - HH CE 35 02 Fed 006 3H	9858.00	-7626.00	-368.00	387281.00	555400.00	32° 3' 52.64861 N	104° 9' 16.18262 W
IP5 - HH CE 35 02 Fed 006 3H	9861.00	-6449.28	-357.28	388457.72	555410.72	32° 4' 4.29394 N	104° 9' 16.03537 W
IP4 - HH CE 35 02 Fed 006 3H	9864.00	-4901.16	-343.17	390005.84	555424.83	32° 4' 19.61480 N	104° 9' 15.84156 W
IP3 - HH CE 35 02 Fed 006 3H	9884.00	-3920.45	-334.23	390986.55	555433.77	32° 4' 29.32032 N	104° 9' 15.71875 W
MPv3 - HH CE 35 02 Fed 006 3H	9899.00	-2418.43	-319.18	392488.57	555448.82	32° 4' 44.18492 N	104° 9' 15.51487 W
FTPv3 - HH CE 35 02 Fed 006 3H	9905.00	188.00	-272.00	395095.00	555496.00	32° 5' 9.97883 N	104° 9' 14.91617 W
IP1 - HH CE 35 02 Fed 006 3H	9917.00	-1657.21	-305.40	393249.79	555462.60	32° 4' 51.71816 N	104° 9' 15.34001 W

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 3H, Grid North

Latitude: 32° 5' 8.11380 N
Longitude: 104° 9' 11.75811 W

Grid East: 555768.00
Grid North: 394907.00
Scale Factor: 1.000

Geomagnetic Model: HDGM
Sample Date: 06-Dec-17
Magnetic Declination: 7.30°
Dip Angle from Horizontal: 59.83°
Magnetic Field Strength: 47991

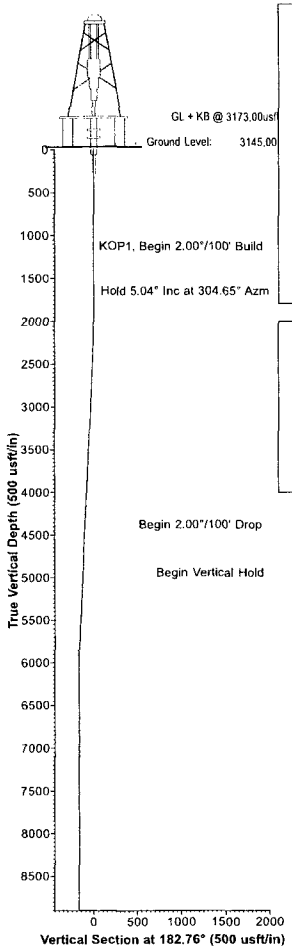
To convert a Magnetic Direction to a Grid Direction, Add 7.20°
To convert a Magnetic Direction to a True Direction, Add 7.30° East
To convert a True Direction to a Grid Direction, Subtract 0.10°

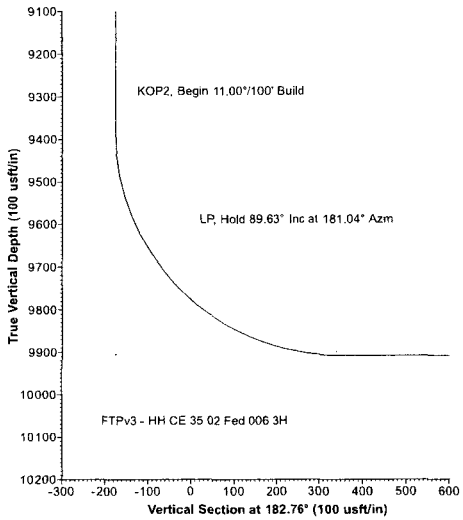
FORMATION TOP DETAILS

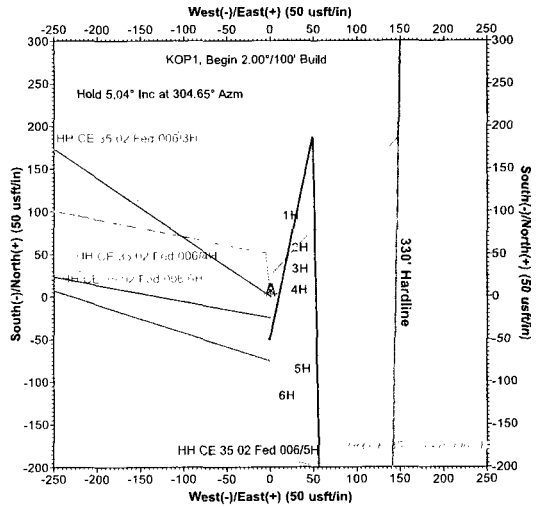
No formation data is available

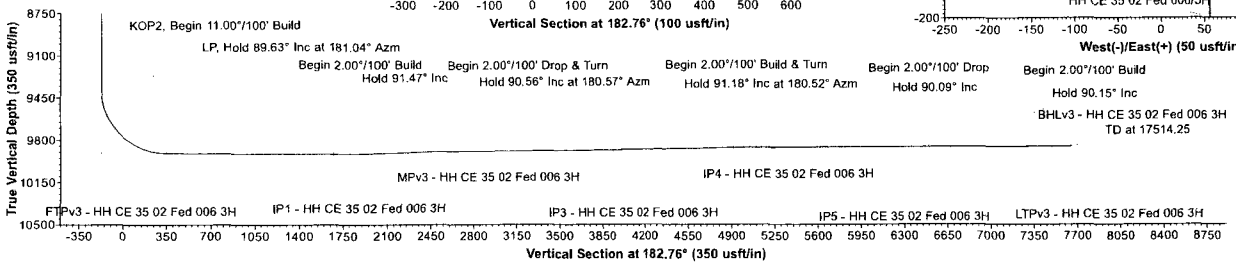
LEGEND

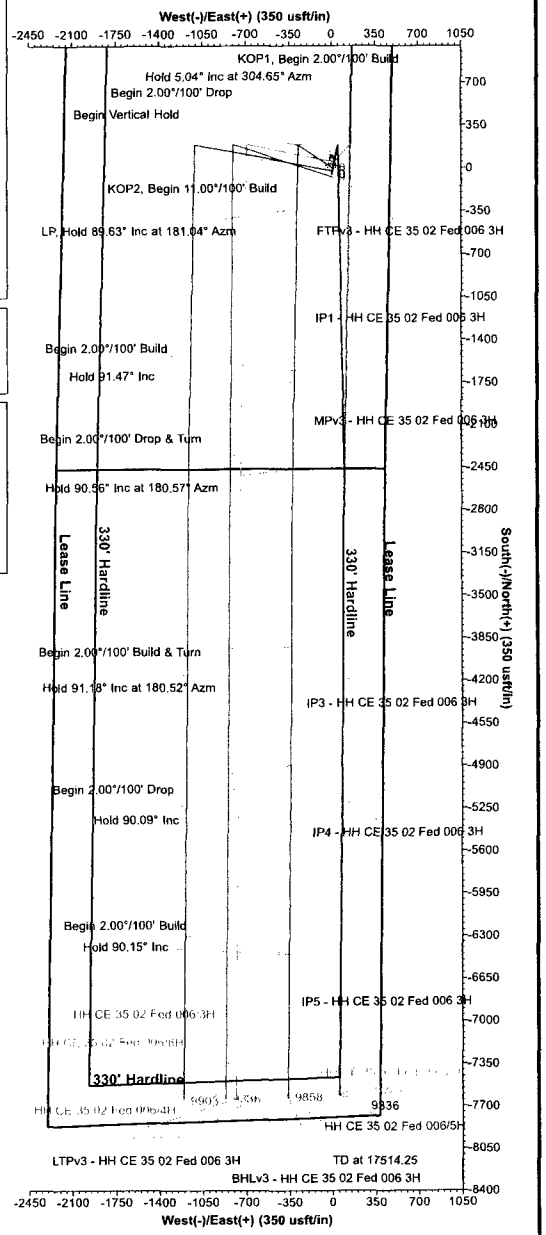
- 6H, OH, Plan 3 11-06-17 V0
- 2H, OH, Plan 3 11-06-17 V0
- 5H, OH, Plan 3 11-06-17 V0
- 4H, OH, Plan 3 11-06-17 V0
- 1H, OH, Plan 3 11-06-17 V0
- Plan 3 11-06-17











Created By: Tim Tate Date: 13:18, November 06 2017

Chevron

Chevron

Eddy County, NM (NAD27 NME)
HH CE 35 02 Fed 006
3H

OH

Plan: Plan 3 11-06-17

Standard Planning Report

06 November, 2017

PHOENIX
TECHNOLOGY SERVICES

Database:	Compass 5000 GCR	**Local Co-ordinate Reference:**	Well 3H
Company:	Chevron	**TVD Reference:**	GL + KB @ 3173.00usft
Project:	Eddy County, NM (NAD27 NME)	**MD Reference:**	GL + KB @ 3173.00usft
Site:	HH CE 35 02 Fed 006	**North Reference:**	Grid
Well:	3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 11-06-17		

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 *HH CE 35 02 Fed 006*

Site Position:		**Northing:**	394,831.98 usft	**Latitude:**	32° 5' 7.37145 N
From:	Map	**Easting:**	555,766.00 usft	**Longitude:**	104° 9' 11.78281 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.10 °

Well 3H

Well Position	**+N/-S**	75.01 usft	**Northing:**	394,907.00 usft	**Latitude:**	32° 5' 8.11380 N
	+E/-W	2.00 usft	**Easting:**	555,768.00 usft	**Longitude:**	104° 9' 11.75811 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,145.00 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	HDGM	12/6/2017	7.30	59.83	47,991

Design Plan 3 11-06-17

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	182.76

Database:	Compass 5000 GCR	**Local Co-ordinate Reference:**	Well 3H
Company:	Chevron	**TVD Reference:**	GL + KB @ 3173.00usft
Project:	Eddy County, NM (NAD27 NME)	**MD Reference:**	GL + KB @ 3173.00usft
Site:	HH CE 35 02 Fed 006	**North Reference:**	Grid
Well:	3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 11-06-17		

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	
2,056.00	0.00	0.00	2,056.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,308.10	5.04	304.65	2,307.77	6.30	-9.12	2.00	2.00	0.00	304.65	
5,818.14	5.04	304.65	5,804.23	181.70	-262.88	0.00	0.00	0.00	0.00	
6,070.23	0.00	0.00	6,056.00	188.00	-272.00	2.00	-2.00	0.00	180.00	
9,401.73	0.00	0.00	9,387.50	188.00	-272.00	0.00	0.00	0.00	0.00	
10,216.53	89.63	181.04	9,908.36	-329.40	-281.37	11.00	11.00	-21.96	181.04	
11,544.58	89.63	181.04	9,917.00	-1,657.21	-305.40	0.00	0.00	0.00	0.00	IP1 - HH CE 35 02
11,636.48	91.47	181.04	9,916.12	-1,749.09	-307.06	2.00	2.00	0.00	0.00	
12,306.16	91.47	181.04	9,899.00	-2,418.43	-319.18	0.00	0.00	0.00	0.00	MPv3 - HH CE 35 0
12,357.32	90.56	180.57	9,898.10	-2,469.59	-319.90	2.00	-1.78	-0.92	-152.60	
13,808.33	90.56	180.57	9,884.00	-3,920.45	-334.23	0.00	0.00	0.00	0.00	IP3 - HH CE 35 02
13,839.48	91.18	180.52	9,883.53	-3,951.60	-334.53	2.00	1.99	-0.14	-4.09	
14,789.28	91.18	180.52	9,864.00	-4,901.16	-343.17	0.00	0.00	0.00	0.00	IP4 - HH CE 35 02
14,843.59	90.09	180.52	9,863.40	-4,955.46	-343.66	2.00	-2.00	0.00	179.97	
16,337.47	90.09	180.52	9,861.00	-6,449.28	-357.28	0.00	0.00	0.00	0.00	IP5 - HH CE 35 02
16,340.18	90.15	180.52	9,860.99	-6,451.99	-357.30	2.00	2.00	-0.01	-0.27	
17,514.25	90.15	180.52	9,858.00	-7,626.00	-368.00	0.00	0.00	0.00	0.00	BHLv3 - HH CE 35

Database:	Compass 5000 GCR	**Local Co-ordinate Reference:**	Well 3H
Company:	Chevron	**TVD Reference:**	GL + KB @ 3173.00usft
Project:	Eddy County, NM (NAD27 NME)	**MD Reference:**	GL + KB @ 3173.00usft
Site:	HH CE 35 02 Fed 006	**North Reference:**	Grid
Well:	3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 11-06-17		

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
2,056.00	0.00	0.00	2,056.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP1, Begin 2.00°/100' Build									
2,100.00	0.88	304.65	2,100.00	0.19	-0.28	-0.18	2.00	2.00	0.00
2,200.00	2.88	304.65	2,199.94	2.06	-2.98	-1.91	2.00	2.00	0.00
2,300.00	4.88	304.65	2,299.71	5.90	-8.54	-5.49	2.00	2.00	0.00
2,308.10	5.04	304.65	2,307.77	6.30	-9.12	-5.86	2.00	2.00	0.00
Hold 5.04° Inc at 304.65° Azm									
2,400.00	5.04	304.65	2,399.32	10.90	-15.76	-10.12	0.00	0.00	0.00
2,500.00	5.04	304.65	2,498.93	15.89	-22.99	-14.77	0.00	0.00	0.00
2,600.00	5.04	304.65	2,598.55	20.89	-30.22	-19.41	0.00	0.00	0.00
2,700.00	5.04	304.65	2,698.16	25.89	-37.45	-24.05	0.00	0.00	0.00
2,800.00	5.04	304.65	2,797.77	30.88	-44.68	-28.69	0.00	0.00	0.00
2,900.00	5.04	304.65	2,897.38	35.88	-51.91	-33.34	0.00	0.00	0.00
3,000.00	5.04	304.65	2,997.00	40.88	-59.14	-37.98	0.00	0.00	0.00
3,100.00	5.04	304.65	3,096.61	45.87	-66.37	-42.62	0.00	0.00	0.00
3,200.00	5.04	304.65	3,196.22	50.87	-73.60	-47.26	0.00	0.00	0.00
3,300.00	5.04	304.65	3,295.84	55.87	-80.83	-51.91	0.00	0.00	0.00
3,400.00	5.04	304.65	3,395.45	60.86	-88.06	-56.55	0.00	0.00	0.00
3,500.00	5.04	304.65	3,495.06	65.86	-95.29	-61.19	0.00	0.00	0.00
3,600.00	5.04	304.65	3,594.68	70.86	-102.52	-65.83	0.00	0.00	0.00
3,700.00	5.04	304.65	3,694.29	75.86	-109.75	-70.48	0.00	0.00	0.00
3,800.00	5.04	304.65	3,793.90	80.85	-116.98	-75.12	0.00	0.00	0.00
3,900.00	5.04	304.65	3,893.52	85.85	-124.21	-79.76	0.00	0.00	0.00
4,000.00	5.04	304.65	3,993.13	90.85	-131.44	-84.41	0.00	0.00	0.00
4,100.00	5.04	304.65	4,092.74	95.84	-138.67	-89.05	0.00	0.00	0.00
4,200.00	5.04	304.65	4,192.35	100.84	-145.90	-93.69	0.00	0.00	0.00
4,300.00	5.04	304.65	4,291.97	105.84	-153.13	-98.33	0.00	0.00	0.00
4,400.00	5.04	304.65	4,391.58	110.83	-160.36	-102.98	0.00	0.00	0.00
4,500.00	5.04	304.65	4,491.19	115.83	-167.59	-107.62	0.00	0.00	0.00
4,600.00	5.04	304.65	4,590.81	120.83	-174.81	-112.26	0.00	0.00	0.00
4,700.00	5.04	304.65	4,690.42	125.82	-182.04	-116.90	0.00	0.00	0.00
4,800.00	5.04	304.65	4,790.03	130.82	-189.27	-121.55	0.00	0.00	0.00
4,900.00	5.04	304.65	4,889.65	135.82	-196.50	-126.19	0.00	0.00	0.00
5,000.00	5.04	304.65	4,989.26	140.82	-203.73	-130.83	0.00	0.00	0.00
5,100.00	5.04	304.65	5,088.87	145.81	-210.96	-135.47	0.00	0.00	0.00
5,200.00	5.04	304.65	5,188.49	150.81	-218.19	-140.12	0.00	0.00	0.00
5,300.00	5.04	304.65	5,288.10	155.81	-225.42	-144.76	0.00	0.00	0.00
5,400.00	5.04	304.65	5,387.71	160.80	-232.65	-149.40	0.00	0.00	0.00
5,500.00	5.04	304.65	5,487.32	165.80	-239.88	-154.05	0.00	0.00	0.00
5,600.00	5.04	304.65	5,586.94	170.80	-247.11	-158.69	0.00	0.00	0.00
5,700.00	5.04	304.65	5,686.55	175.79	-254.34	-163.33	0.00	0.00	0.00
5,800.00	5.04	304.65	5,786.16	180.79	-261.57	-167.97	0.00	0.00	0.00
5,818.14	5.04	304.65	5,804.23	181.70	-262.88	-168.82	0.00	0.00	0.00
Begin 2.00°/100' Drop									
5,900.00	3.40	304.65	5,885.87	185.13	-267.84	-172.00	2.00	-2.00	0.00
6,000.00	1.40	304.65	5,985.78	187.51	-271.29	-174.22	2.00	-2.00	0.00
6,070.23	0.00	0.00	6,056.00	188.00	-272.00	-174.67	2.00	-2.00	0.00
Begin Vertical Hold									
9,401.73	0.00	0.00	9,387.50	188.00	-272.00	-174.67	0.00	0.00	0.00
KOP2, Begin 11.00°/100' Build									
9,500.00	10.81	181.04	9,485.19	178.76	-272.17	-165.43	11.00	11.00	0.00
9,600.00	21.81	181.04	9,581.01	150.72	-272.67	-137.41	11.00	11.00	0.00
9,700.00	32.81	181.04	9,669.73	104.92	-273.50	-91.62	11.00	11.00	0.00

Database:	Compass 5000 GCR	**Local Co-ordinate Reference:**	Well 3H
Company:	Chevron	**TVD Reference:**	GL + KB @ 3173.00usft
Project:	Eddy County, NM (NAD27 NME)	**MD Reference:**	GL + KB @ 3173.00usft
Site:	HH CE 35 02 Fed 006	**North Reference:**	Grid
Well:	3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 11-06-17		

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)
9,800.00	43.81	181.04	9,748.08	43.04	-274.62	-29.75	11.00	11.00	0.00
9,900.00	54.81	181.04	9,813.18	-32.66	-275.99	45.92	11.00	11.00	0.00
10,000.00	65.81	181.04	9,862.63	-119.38	-277.56	132.62	11.00	11.00	0.00
10,100.00	76.81	181.04	9,894.63	-213.95	-279.28	227.16	11.00	11.00	0.00
10,200.00	87.81	181.04	9,907.99	-312.88	-281.07	326.06	11.00	11.00	0.00
10,216.53	89.63	181.04	9,908.36	-329.40	-281.37	342.58	11.00	11.00	0.00
LP, Hold 89.63° Inc at 181.04° Azm									
10,300.00	89.63	181.04	9,908.90	-412.86	-282.88	426.01	0.00	0.00	0.00
10,400.00	89.63	181.04	9,909.55	-512.84	-284.69	525.96	0.00	0.00	0.00
10,500.00	89.63	181.04	9,910.20	-612.82	-286.50	625.92	0.00	0.00	0.00
10,600.00	89.63	181.04	9,910.85	-712.80	-288.31	725.87	0.00	0.00	0.00
10,700.00	89.63	181.04	9,911.51	-812.78	-290.12	825.82	0.00	0.00	0.00
10,800.00	89.63	181.04	9,912.16	-912.76	-291.92	925.77	0.00	0.00	0.00
10,900.00	89.63	181.04	9,912.81	-1,012.75	-293.73	1,025.73	0.00	0.00	0.00
11,000.00	89.63	181.04	9,913.46	-1,112.73	-295.54	1,125.68	0.00	0.00	0.00
11,100.00	89.63	181.04	9,914.11	-1,212.71	-297.35	1,225.63	0.00	0.00	0.00
11,200.00	89.63	181.04	9,914.76	-1,312.69	-299.16	1,325.58	0.00	0.00	0.00
11,300.00	89.63	181.04	9,915.41	-1,412.67	-300.97	1,425.54	0.00	0.00	0.00
11,400.00	89.63	181.04	9,916.06	-1,512.65	-302.78	1,525.49	0.00	0.00	0.00
11,500.00	89.63	181.04	9,916.71	-1,612.63	-304.59	1,625.44	0.00	0.00	0.00
11,544.58	89.63	181.04	9,917.00	-1,657.21	-305.40	1,670.00	0.00	0.00	0.00
Begin 2.00°/100' Build									
11,600.00	90.74	181.04	9,916.82	-1,712.62	-306.40	1,725.39	2.00	2.00	0.00
11,636.48	91.47	181.04	9,916.12	-1,749.08	-307.06	1,761.85	2.00	2.00	0.00
Hold 91.47° Inc									
11,700.00	91.47	181.04	9,914.50	-1,812.57	-308.21	1,825.32	0.00	0.00	0.00
11,800.00	91.47	181.04	9,911.94	-1,912.52	-310.02	1,925.24	0.00	0.00	0.00
11,900.00	91.47	181.04	9,909.39	-2,012.47	-311.83	2,025.17	0.00	0.00	0.00
12,000.00	91.47	181.04	9,906.83	-2,112.43	-313.64	2,125.09	0.00	0.00	0.00
12,100.00	91.47	181.04	9,904.27	-2,212.38	-315.45	2,225.01	0.00	0.00	0.00
12,200.00	91.47	181.04	9,901.71	-2,312.33	-317.26	2,324.93	0.00	0.00	0.00
12,300.00	91.47	181.04	9,899.16	-2,412.28	-319.07	2,424.85	0.00	0.00	0.00
12,306.16	91.47	181.04	9,899.00	-2,418.43	-319.18	2,431.01	0.00	0.00	0.00
Begin 2.00°/100' Drop & Turn									
12,357.32	90.56	180.57	9,898.10	-2,469.58	-319.90	2,482.13	2.00	-1.78	-0.92
Hold 90.56° Inc at 180.57° Azm									
12,400.00	90.56	180.57	9,897.68	-2,512.26	-320.32	2,524.78	0.00	0.00	0.00
12,500.00	90.56	180.57	9,896.71	-2,612.25	-321.31	2,624.70	0.00	0.00	0.00
12,600.00	90.56	180.57	9,895.74	-2,712.24	-322.29	2,724.62	0.00	0.00	0.00
12,700.00	90.56	180.57	9,894.77	-2,812.23	-323.28	2,824.54	0.00	0.00	0.00
12,800.00	90.56	180.57	9,893.80	-2,912.22	-324.27	2,924.46	0.00	0.00	0.00
12,900.00	90.56	180.57	9,892.83	-3,012.21	-325.26	3,024.39	0.00	0.00	0.00
13,000.00	90.56	180.57	9,891.85	-3,112.20	-326.24	3,124.31	0.00	0.00	0.00
13,100.00	90.56	180.57	9,890.88	-3,212.19	-327.23	3,224.23	0.00	0.00	0.00
13,200.00	90.56	180.57	9,889.91	-3,312.18	-328.22	3,324.15	0.00	0.00	0.00
13,300.00	90.56	180.57	9,888.94	-3,412.17	-329.21	3,424.07	0.00	0.00	0.00
13,400.00	90.56	180.57	9,887.97	-3,512.16	-330.20	3,523.99	0.00	0.00	0.00
13,500.00	90.56	180.57	9,887.00	-3,612.15	-331.18	3,623.92	0.00	0.00	0.00
13,600.00	90.56	180.57	9,886.02	-3,712.14	-332.17	3,723.84	0.00	0.00	0.00
13,700.00	90.56	180.57	9,885.05	-3,812.13	-333.16	3,823.76	0.00	0.00	0.00
13,800.00	90.56	180.57	9,884.08	-3,912.12	-334.15	3,923.68	0.00	0.00	0.00
13,808.33	90.56	180.57	9,884.00	-3,920.45	-334.23	3,932.01	0.00	0.00	0.00
Begin 2.00°/100' Build & Turn									

Database:	Compass 5000 GCR	**Local Co-ordinate Reference:**	Well 3H
Company:	Chevron	**TVD Reference:**	GL + KB @ 3173.00usft
Project:	Eddy County, NM (NAD27 NME)	**MD Reference:**	GL + KB @ 3173.00usft
Site:	HH CE 35 02 Fed 006	**North Reference:**	Grid
Well:	3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 11-06-17		

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)
13,839.48	91.18	180.52	9,883.53	-3,951.60	-334.53	3,963.13	2.00	2.00	-0.14
Hold 91.18° Inc at 180.52° Azm									
13,900.00	91.18	180.52	9,882.28	-4,012.10	-335.08	4,023.59	0.00	0.00	0.00
14,000.00	91.18	180.52	9,880.23	-4,112.08	-335.99	4,123.49	0.00	0.00	0.00
14,100.00	91.18	180.52	9,878.17	-4,212.05	-336.90	4,223.39	0.00	0.00	0.00
14,200.00	91.18	180.52	9,876.12	-4,312.03	-337.81	4,323.30	0.00	0.00	0.00
14,300.00	91.18	180.52	9,874.06	-4,412.00	-338.72	4,423.20	0.00	0.00	0.00
14,400.00	91.18	180.52	9,872.00	-4,511.98	-339.63	4,523.10	0.00	0.00	0.00
14,500.00	91.18	180.52	9,869.95	-4,611.95	-340.54	4,623.00	0.00	0.00	0.00
14,600.00	91.18	180.52	9,867.89	-4,711.92	-341.45	4,722.91	0.00	0.00	0.00
14,700.00	91.18	180.52	9,865.84	-4,811.90	-342.36	4,822.81	0.00	0.00	0.00
14,789.28	91.18	180.52	9,864.00	-4,901.16	-343.17	4,912.00	0.00	0.00	0.00
Begin 2.00°/100' Drop									
14,800.00	90.96	180.52	9,863.80	-4,911.87	-343.27	4,922.71	2.00	-2.00	0.00
14,843.59	90.09	180.52	9,863.40	-4,955.46	-343.66	4,966.27	2.00	-2.00	0.00
Hold 90.09° Inc									
14,900.00	90.09	180.52	9,863.31	-5,011.87	-344.18	5,022.63	0.00	0.00	0.00
15,000.00	90.09	180.52	9,863.15	-5,111.86	-345.09	5,122.56	0.00	0.00	0.00
15,100.00	90.09	180.52	9,862.99	-5,211.86	-346.00	5,222.48	0.00	0.00	0.00
15,200.00	90.09	180.52	9,862.83	-5,311.86	-346.91	5,322.40	0.00	0.00	0.00
15,300.00	90.09	180.52	9,862.67	-5,411.85	-347.82	5,422.33	0.00	0.00	0.00
15,400.00	90.09	180.52	9,862.51	-5,511.85	-348.74	5,522.25	0.00	0.00	0.00
15,500.00	90.09	180.52	9,862.34	-5,611.84	-349.65	5,622.17	0.00	0.00	0.00
15,600.00	90.09	180.52	9,862.18	-5,711.84	-350.56	5,722.10	0.00	0.00	0.00
15,700.00	90.09	180.52	9,862.02	-5,811.83	-351.47	5,822.02	0.00	0.00	0.00
15,800.00	90.09	180.52	9,861.86	-5,911.83	-352.38	5,921.94	0.00	0.00	0.00
15,900.00	90.09	180.52	9,861.70	-6,011.83	-353.29	6,021.87	0.00	0.00	0.00
16,000.00	90.09	180.52	9,861.54	-6,111.82	-354.20	6,121.79	0.00	0.00	0.00
16,100.00	90.09	180.52	9,861.38	-6,211.82	-355.12	6,221.71	0.00	0.00	0.00
16,200.00	90.09	180.52	9,861.22	-6,311.81	-356.03	6,321.64	0.00	0.00	0.00
16,300.00	90.09	180.52	9,861.06	-6,411.81	-356.94	6,421.56	0.00	0.00	0.00
16,337.47	90.09	180.52	9,861.00	-6,449.28	-357.28	6,459.00	0.00	0.00	0.00
Begin 2.00°/100' Build									
16,340.18	90.15	180.52	9,860.99	-6,451.99	-357.30	6,461.71	2.00	2.00	-0.01
Hold 90.15° Inc									
16,400.00	90.15	180.52	9,860.84	-6,511.80	-357.85	6,521.48	0.00	0.00	0.00
16,500.00	90.15	180.52	9,860.59	-6,611.80	-358.76	6,621.41	0.00	0.00	0.00
16,600.00	90.15	180.52	9,860.33	-6,711.79	-359.67	6,721.33	0.00	0.00	0.00
16,700.00	90.15	180.52	9,860.08	-6,811.79	-360.58	6,821.25	0.00	0.00	0.00
16,800.00	90.15	180.52	9,859.82	-6,911.79	-361.49	6,921.18	0.00	0.00	0.00
16,900.00	90.15	180.52	9,859.57	-7,011.78	-362.40	7,021.10	0.00	0.00	0.00
17,000.00	90.15	180.52	9,859.31	-7,111.78	-363.32	7,121.02	0.00	0.00	0.00
17,100.00	90.15	180.52	9,859.06	-7,211.77	-364.23	7,220.95	0.00	0.00	0.00
17,200.00	90.15	180.52	9,858.80	-7,311.77	-365.14	7,320.87	0.00	0.00	0.00
17,300.00	90.15	180.52	9,858.55	-7,411.76	-366.05	7,420.79	0.00	0.00	0.00
17,400.00	90.15	180.52	9,858.29	-7,511.76	-366.96	7,520.72	0.00	0.00	0.00
17,500.00	90.15	180.52	9,858.04	-7,611.75	-367.87	7,620.64	0.00	0.00	0.00
17,514.25	90.15	180.52	9,858.00	-7,626.00	-368.00	7,634.87	0.00	0.00	0.00
TD at 17514.25									

Database:	Compass 5000 GCR	**Local Co-ordinate Reference:**	Well 3H
Company:	Chevron	**TVD Reference:**	GL + KB @ 3173.00usft
Project:	Eddy County, NM (NAD27 NME)	**MD Reference:**	GL + KB @ 3173.00usft
Site:	HH CE 35 02 Fed 006	**North Reference:**	Grid
Well:	3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 11-06-17		

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
LTPv3 - HH CE 35 02	0.00	0.00	9,854.60	-7,475.00	-367.00	387,432.00	555,401.00	32° 3' 54.14298 N	104° 9' 16.16809 W
- plan misses target center by 3.80usft at 17363.25usft MD (9858.39 TVD, -7475.01 N, -366.62 E)									
- Point									
BHLv3 - HH CE 35 02	0.00	0.00	9,858.00	-7,626.00	-368.00	387,281.00	555,400.00	32° 3' 52.64861 N	104° 9' 16.18262 W
- plan hits target center									
- Point									
IP5 - HH CE 35 02 Fe	0.00	0.00	9,861.00	-6,449.28	-357.28	388,457.72	555,410.72	32° 4' 4.29394 N	104° 9' 16.03537 W
- plan hits target center									
- Point									
IP4 - HH CE 35 02 Fe	0.00	0.00	9,864.00	-4,901.16	-343.17	390,005.84	555,424.83	32° 4' 19.61480 N	104° 9' 15.84156 W
- plan hits target center									
- Point									
IP3 - HH CE 35 02 Fe	0.00	0.00	9,884.00	-3,920.45	-334.23	390,986.55	555,433.77	32° 4' 29.32033 N	104° 9' 15.71875 W
- plan hits target center									
- Point									
MPv3 - HH CE 35 02	0.00	0.01	9,899.00	-2,418.43	-319.18	392,488.57	555,448.82	32° 4' 44.18492 N	104° 9' 15.51487 W
- plan hits target center									
- Point									
FTPv3 - HH CE 35 02	0.00	0.00	9,905.00	188.00	-272.00	395,095.00	555,496.00	32° 5' 9.97883 N	104° 9' 14.91617 W
- plan misses target center by 213.65usft at 9800.00usft MD (9748.08 TVD, 43.04 N, -274.62 E)									
- Point									
IP1 - HH CE 35 02 Fe	0.00	0.00	9,917.00	-1,657.21	-305.40	393,249.79	555,462.60	32° 4' 51.71816 N	104° 9' 15.34002 W
- plan hits target center									
- Point									

Plan Annotations

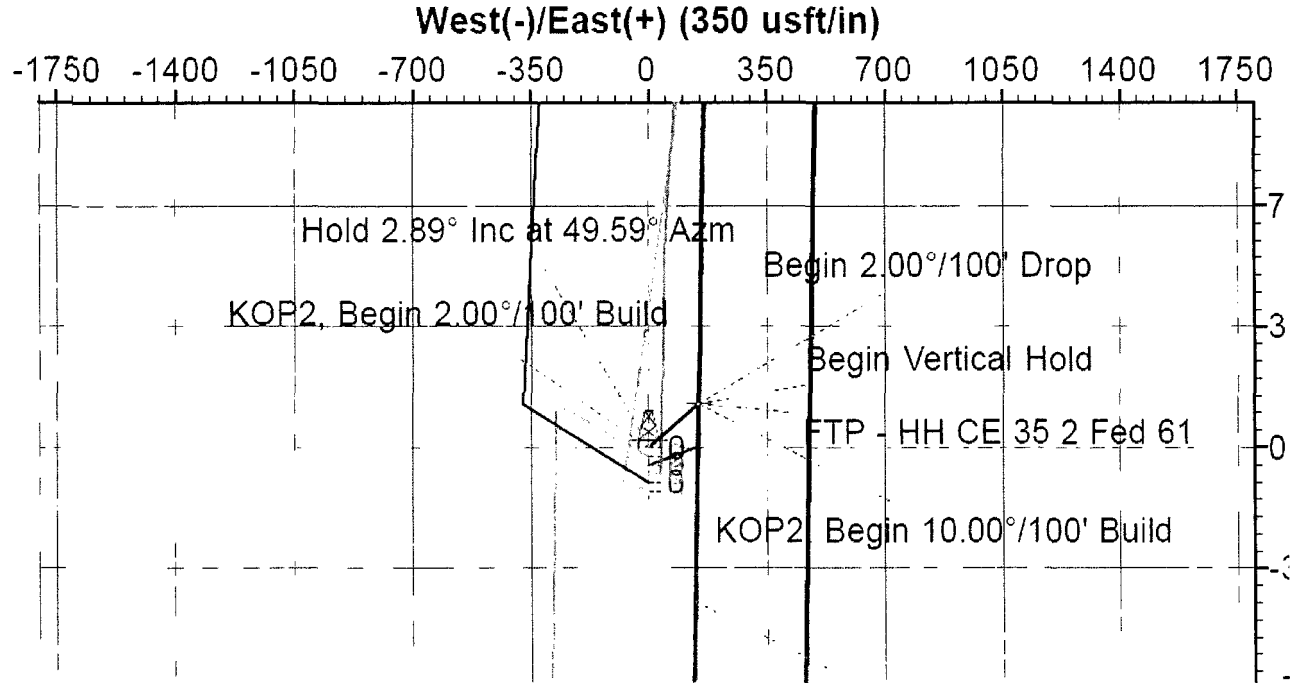
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
2,056.00	2,056.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
2,308.10	2,307.77	6.30	-9.12	Hold 5.04° Inc at 304.65° Azm
5,818.14	5,804.23	181.70	-262.88	Begin 2.00°/100' Drop
6,070.23	6,056.00	188.00	-272.00	Begin Vertical Hold
9,401.73	9,387.50	188.00	-272.00	KOP2, Begin 11.00°/100' Build
10,216.53	9,908.36	-329.40	-281.37	LP, Hold 89.63° Inc at 181.04° Azm
11,544.58	9,917.00	-1,657.21	-305.40	Begin 2.00°/100' Build
11,636.48	9,916.12	-1,749.08	-307.06	Hold 91.47° Inc
12,306.16	9,899.00	-2,418.43	-319.18	Begin 2.00°/100' Drop & Turn
12,357.32	9,898.10	-2,469.58	-319.90	Hold 90.56° Inc at 180.57° Azm
13,808.33	9,884.00	-3,920.45	-334.23	Begin 2.00°/100' Build & Turn
13,839.48	9,883.53	-3,951.60	-334.53	Hold 91.18° Inc at 180.52° Azm
14,789.28	9,864.00	-4,901.16	-343.17	Begin 2.00°/100' Drop
14,843.59	9,863.40	-4,955.46	-343.66	Hold 90.09° Inc
16,337.47	9,861.00	-6,449.28	-357.28	Begin 2.00°/100' Build
16,340.18	9,860.99	-6,451.99	-357.30	Hold 90.15° Inc
17,514.25	9,858.00	-7,626.00	-368.00	TD at 17514.25

Summary of Changes to Directional Plan Submission

Chevron respectfully request a variance from the original directional plan, which will change the first take points/last take points.

Directional Plan – Section 35

Summary: The original directional plan was bi-directional (north & south), but with the updated targets given by Chevron geologist, the well path will be drilled to the south.



Chevron respectfully request a variance from the original directional plan, to drill all six wells to the south.

#REF!

13 3/8	surface csg in a		17 1/2	inch hole.		Design Factors		SURFACE	
Segment	**#/ft**	**Grade**		**Coupling**	**Joint**	**Collapse**	**Burst**	**Length**	**Weight**
"A"	54.50	K 55		ST&C	22.30	5.56	0.61	450	24,525
"B"								**0**	**0**
w/8.4#/g mud, 30min Sfc Csg Test psig:	1,500			Tail Cmt	does	circ to sfc.	Totals:	450	24,525

Comparison of Proposed to Minimum Required Cement Volumes

Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	**Volume**	**Cmt Sx**	**CuFt Cmt**	**Cu Ft**	**% Excess**	**Mud Wt**	**MASP**	**BOPE**	**Hole-Cplg**
17 1/2	0.6946	**356**	473	**367**	29	**8.70**	2466	**3M**	1.56

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.

9 5/8	casing inside the		13 3/8			Design Factors		INTERMEDIATE	
Segment	**#/ft**	**Grade**		**Coupling**	**Joint**	**Collapse**	**Burst**	**Length**	**Weight**
"A"	43.50	L 80		LT&C	2.07	1.29	0.98	9,015	392,153
"B"								**0**	**0**
w/8.4#/g mud, 30min Sfc Csg Test psig:							Totals:	9,015	392,153
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		**450**	overlap.

Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	**Volume**	**Cmt Sx**	**CuFt Cmt**	**Cu Ft**	**% Excess**	**Mud Wt**	**MASP**	**BOPE**	**Hole-Cplg**
12 1/4	0.3132	look ↘	0	**2864**		**9.50**	4250	**5M**	0.81
D V Tool(s):			2100				sum of sx	Σ CuFt	Σ%excess
t by stage %		91	22				2361	5004	75

Class 'H' tail cmt yld > 1.20

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.7, b, c, d All > 0.70, OK.

Tail cmt

5 1/2	casing inside the		9 5/8			Design Factors		PRODUCTION	
Segment	**#/ft**	**Grade**		**Coupling**	**Joint**	**Collapse**	**Burst**	**Length**	**Weight**
"A"	20.00	P 110		BUTT	3.25	1.82	1.97	9,402	188,040
"B"	**20.00**	**P 110**		**BUTT**	7.47	**1.58**	**1.97**	**8,112**	**162,240**
w/8.4#/g mud, 30min Sfc Csg Test psig:	2,068						Totals:	17,514	350,280
B would be:					70.29	1.73	if it were a vertical wellbore.		

00	MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity°	MEOC
	17514	9898	9858	9402	90	11	10217

The cement volume(s) are intended to achieve a top of 7015 ft from surface or a **2000** overlap.

Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	**Volume**	**Cmt Sx**	**CuFt Cmt**	**Cu Ft**	**% Excess**	**Mud Wt**	**MASP**	**BOPE**	**Hole-Cplg**
8 1/2	0.2291	**3111**	3738	**2459**	52	**12.50**			1.20