

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.
NNNM114968

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
HH CE 35 2 FED 66H

318938

2. Name of Operator
CHEVRON USA INCORPORATEDContact: DORIAN K FUENTES
E-Mail: DJVO@CHEVRON.COM9. API Well No.
30-015-44348-00-X13a. Address
6301 DEAUVILLE BLVD
MIDLAND, TX 797063b. Phone No. (include area code)
Ph: 432-687-763110. 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 2389FSL 475FEL
32.085504 N Lat, 104.153764 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 Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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.

Chevron respectfully request a variance from the original directional plan, which will change the first/last points, and the 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 66H to HH CE 35 2 FED 006 6H as referenced on the Sundry.

BHL from 280N & 330E to 180S & 1254E
FTP from 2640S & 430E to 2654S & 1254E
LTP from 330N & 330E to 330S & 1254E

Carlsbad Field Office
OCD Artesia

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 29 2017

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

Electronic Submission #386754 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 (18PP0019SE)

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 ****

RNP 12-5-17

Additional data for EC transaction #386754 that would not fit on the form

32. Additional remarks, continued

Please refer to the attached.

Should questions arise, please contact me @ djvo@chevron.com or Rod at 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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505
Phone (505) 334-6178 Fax (505) 334-6170
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

API Number 301154434E	Pool Code 7522	Property Name Triangle Well Location (C&A)
Property Code 31EY3E	Property Name HILL 35 02 FED 006	Well Number 6H
OGRI'D No. 4323	Operator Name CHEVRON U.S.A. INC	Section 3146

Surface Location

UI	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.		2389'	SOUTH	475'	EAST	EDDY

Bottom Hole Location If Different From Surface

UI	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	1254'	EAST	EDDY

Dedicated Acres 646	Initial or Infill	Completion Code	Order No.
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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

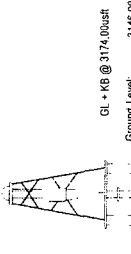
PROPOSED FIRST TAKE POINT X= 554,992 NAD 27 Y= 395,096 LAT 32 086110 LONG 104 155771 X= 596,176 NAD83 Y= 395,153 LAT 32 086232 LONG 104 156263 MID POINT X= 554,944 NAD 27 Y= 392,442 LAT 32 078815 LONG 104 155939 X= 596,128 NAD83 Y= 392,500 LAT 32 078938 LONG 104 156430 PROPOSED LAST TAKE POINT X= 554,897 NAD 27 Y= 387,414 LAT 32 064993 LONG 104 156118 X= 596,081 NAD83 Y= 387,471 LAT 32 065115 LONG 104 156610	PROPOSED BOTTOM HOLE LOCATION X= 554,896 NAD 27 Y= 397,264 LAT 32 064586 LONG 104 156123 X= 596,080 NAD83 Y= 387,327 LAT 32 064702 LONG 104 156615	OPERATOR 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. Signature: <i>[Signature]</i> Date: <i>[Date]</i> Printed Name: <i>[Name]</i> Address: <i>[Address]</i> 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. Date of Survey: <i>11-10-2016</i> Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: <i>23006</i>
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Project: Eddy County, NM (NAD27 NME)
Site: HH CE 35 02 Fed 006
Well: 6H
Wellbore: OH
Design: Plan 3 11-06-17
Rig:

WELL DETAILS

	North	East	Ground Level
•NLS	0.00	394832.00	555766.00
•E-W	0.00	394832.00	555766.00
•NLS	0.00	394832.00	555766.00



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+NLS	+E-W	Deg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	Hold 14.43° Inc at 288.26° Azm
3	2721.31	14.43	288.26	2713.71	78.31	-45.78	2.00	288.26	-18.33	0.00	Begin Vertical Hold
4	5298.95	0.00	0.00	5298.95	0.00	0.00	0.00	0.00	0.00	0.00	KOP2, Begin 10.00°/100' Build
5	6598.95	0.00	0.00	6598.95	0.00	0.00	0.00	0.00	0.00	0.00	Hold 90.22° Inc at 180.47° Azm
6	8884.75	0.00	0.00	8884.75	0.00	0.00	0.00	0.00	0.00	0.00	LP, Hold 90.22° Inc at 180.47° Azm
7	9786.98	90.22	180.47	9786.98	-311.17	-80.47	10.00	180.47	401.04	0.00	MPV3 - HH CE 35 02 Fed 006 6H
8	11780.18	90.22	180.47	11780.18	-2304.28	-821.29	0.00	0.00	2387.45	0.00	BHLV3 - HH CE 35 02 Fed 006 6H
9	11784.86	90.15	180.53	11784.86	-2308.76	-821.33	2.00	180.53	7617.84	0.00	TD at 17044.14
10	17044.14	90.15	180.53	17044.14	-2308.76	-821.33	2.00	180.53	7617.84	0.00	TD at 17044.14

KOP1, Begin 2.00°/100' Build

Hold 14.43° Inc at 288.26° Azm

True Vertical Depth (500 usft/in)

Begin 2.00°/100' Drop

Begin Vertical Hold

True Vertical Depth (100 usft/in)

KOP2, Begin 10.00°/100' Build

LP, Hold 90.22° Inc at 180.47° Azm

FTPV3 - HH CE 35 02 Fed 006 6H

Vertical Section at 186.56° (100 usft/in)

KOP2, Begin 10.00°/100' Build

LP, Hold 90.22° Inc at 180.47° Azm

Hold 90.15° Inc at 180.53° Azm

MPV3 - HH CE 35 02 Fed 006 6H

FTPV3 - HH CE 35 02 Fed 006 6H

Vertical Section at 186.56° (350 usft/in)

FORMATION TOP DETAILS

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Zone Name: New Mexico East 3001
Local Origin: Well 6H, Grid North
Latitude: 32° 5' 7.37159 N
Longitude: 104° 9' 11.78281 W
GDA East: 555766.00
Grid North: 394832.00
Scale Factor: 1.000
Geomagnetic Model: HDGM
Sample Date: 06-Dec-17
Magnetic Declination: 2.00°
Dip Angle: 59.83°
Magnetic Field Strength: 47981
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°

LEGEND

No formation data is available

LEGEND

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- 353H, OH, Plan 3 11-06-17 V0
- 354H, OH, Plan 3 11-06-17 V0
- 355H, OH, Plan 3 11-06-17 V0
- 356H, OH,



Chevron

Eddy County, NM (NAD27 NME)

HH CE 35 02 Fed 006

6H

OH

Plan: Plan 3 11-06-17

Standard Planning Report

06 November, 2017





Phoenix Technology Services LP

Planning Report



Database: Compass 5000 GCR
Company: Chevron
Project: Eddy County, NM (NAD27 NME)
Site: HH CE 35 02 Fed 006
Well: 6H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 6H
TVD Reference: GL + KB @ 3174.00usft
MD Reference: GL + KB @ 3174.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Well 6H

Well Position +N/-S 0.01 usft **Northing:** 394,832.00 usft **Latitude:** 32° 5' 7.37159 N
+/-W 0.00 usft **Easting:** 555,766.00 usft **Longitude:** 104° 9' 11.78281 W
Position Uncertainty 0.00 usft **Wellhead Elevation:** 0.00 usft **Ground Level:** 3,146.00 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) **+N/-S** **+E/-W** **Direction**
(usft) (usft) (usft) (°)
0.00 0.00 0.00 186.56

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,721.31	14.43	288.26	2,713.71	28.31	-85.78	2.00	2.00	0.00	288.26	
5,377.64	14.43	288.26	5,286.29	235.69	-714.22	0.00	0.00	0.00	0.00	
6,098.95	0.00	0.00	6,000.00	264.00	-800.00	2.00	-2.00	0.00	180.00	
8,884.75	0.00	0.00	8,785.80	264.00	-800.00	0.00	0.00	0.00	0.00	
9,786.98	90.22	180.47	9,358.75	-311.17	-804.77	10.00	10.00	-19.90	180.47	
11,780.18	90.22	180.47	9,351.00	-2,304.28	-821.29	0.00	0.00	0.00	0.00	MPv3 - HH CE 35 C
11,784.66	90.15	180.53	9,350.99	-2,308.76	-821.33	2.00	-1.57	1.23	141.91	
17,044.14	90.15	180.53	9,337.00	-7,568.00	-870.00	0.00	0.00	0.00	0.00	BHLv3 - HH CE 35



Phoenix Technology Services LP

Planning Report



Database: Compass 5000 GCR
 Company: Chevron
 Project: Eddy County, NM (NAD27 NME)
 Site: HH CE 35 02 Fed 006
 Well: 6H
 Wellbore: OH
 Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 6H
 TVD Reference: GL + KB @ 3174.00usft
 MD Reference: GL + KB @ 3174.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP1, Begin 2.00°/100' Build									
2,100.00	2.00	288.26	2,099.98	0.55	-1.66	-0.35	2.00	2.00	0.00
2,200.00	4.00	288.26	2,199.84	2.19	-6.63	-1.42	2.00	2.00	0.00
2,300.00	6.00	288.26	2,299.45	4.92	-14.90	-3.18	2.00	2.00	0.00
2,400.00	8.00	288.26	2,398.70	8.74	-26.48	-5.66	2.00	2.00	0.00
2,500.00	10.00	288.26	2,497.47	13.64	-41.33	-8.83	2.00	2.00	0.00
2,600.00	12.00	288.26	2,595.62	19.62	-59.45	-12.70	2.00	2.00	0.00
2,700.00	14.00	288.26	2,693.06	26.67	-80.81	-17.26	2.00	2.00	0.00
2,721.31	14.43	288.26	2,713.71	28.31	-85.78	-18.33	2.00	2.00	0.00
Hold 14.43° Inc at 288.26° Azm									
2,800.00	14.43	288.26	2,789.92	34.45	-104.40	-22.30	0.00	0.00	0.00
2,900.00	14.43	288.26	2,886.77	42.26	-128.05	-27.36	0.00	0.00	0.00
3,000.00	14.43	288.26	2,983.62	50.06	-151.71	-32.41	0.00	0.00	0.00
3,100.00	14.43	288.26	3,080.46	57.87	-175.37	-37.47	0.00	0.00	0.00
3,200.00	14.43	288.26	3,177.31	65.68	-199.03	-42.52	0.00	0.00	0.00
3,300.00	14.43	288.26	3,274.16	73.49	-222.69	-47.57	0.00	0.00	0.00
3,400.00	14.43	288.26	3,371.00	81.29	-246.35	-52.63	0.00	0.00	0.00
3,500.00	14.43	288.26	3,467.85	89.10	-270.00	-57.68	0.00	0.00	0.00
3,600.00	14.43	288.26	3,564.70	96.91	-293.66	-62.74	0.00	0.00	0.00
3,700.00	14.43	288.26	3,661.54	104.72	-317.32	-67.79	0.00	0.00	0.00
3,800.00	14.43	288.26	3,758.39	112.52	-340.98	-72.85	0.00	0.00	0.00
3,900.00	14.43	288.26	3,855.24	120.33	-364.64	-77.90	0.00	0.00	0.00
4,000.00	14.43	288.26	3,952.09	128.14	-388.30	-82.95	0.00	0.00	0.00
4,100.00	14.43	288.26	4,048.93	135.94	-411.95	-88.01	0.00	0.00	0.00
4,200.00	14.43	288.26	4,145.78	143.75	-435.61	-93.06	0.00	0.00	0.00
4,300.00	14.43	288.26	4,242.63	151.56	-459.27	-98.12	0.00	0.00	0.00
4,400.00	14.43	288.26	4,339.47	159.37	-482.93	-103.17	0.00	0.00	0.00
4,500.00	14.43	288.26	4,436.32	167.17	-506.59	-108.22	0.00	0.00	0.00
4,600.00	14.43	288.26	4,533.17	174.98	-530.24	-113.28	0.00	0.00	0.00
4,700.00	14.43	288.26	4,630.01	182.79	-553.90	-118.33	0.00	0.00	0.00
4,800.00	14.43	288.26	4,726.86	190.60	-577.56	-123.39	0.00	0.00	0.00
4,900.00	14.43	288.26	4,823.71	198.40	-601.22	-128.44	0.00	0.00	0.00
5,000.00	14.43	288.26	4,920.55	206.21	-624.88	-133.50	0.00	0.00	0.00
5,100.00	14.43	288.26	5,017.40	214.02	-648.54	-138.55	0.00	0.00	0.00
5,200.00	14.43	288.26	5,114.25	221.82	-672.19	-143.60	0.00	0.00	0.00
5,300.00	14.43	288.26	5,211.10	229.63	-695.85	-148.66	0.00	0.00	0.00
5,377.64	14.43	288.26	5,286.29	235.69	-714.22	-152.58	0.00	0.00	0.00
Begin 2.00°/100' Drop									
5,400.00	13.98	288.26	5,307.96	237.41	-719.43	-153.70	2.00	-2.00	0.00
5,500.00	11.98	288.26	5,405.40	244.45	-740.76	-158.25	2.00	-2.00	0.00
5,600.00	9.98	288.26	5,503.57	250.42	-758.84	-162.12	2.00	-2.00	0.00
5,700.00	7.98	288.26	5,602.34	255.31	-773.66	-165.28	2.00	-2.00	0.00
5,800.00	5.98	288.26	5,701.59	259.12	-785.20	-167.75	2.00	-2.00	0.00
5,900.00	3.98	288.26	5,801.21	261.84	-793.44	-169.51	2.00	-2.00	0.00
6,000.00	1.98	288.26	5,901.07	263.46	-798.38	-170.56	2.00	-2.00	0.00
6,098.95	0.00	0.00	6,000.00	264.00	-800.00	-170.91	2.00	-2.00	72.50
Begin Vertical Hold									
8,884.75	0.00	0.00	8,785.80	264.00	-800.00	-170.91	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
8,900.00	1.53	180.47	8,801.05	263.80	-800.00	-170.71	10.00	10.00	0.00
9,000.00	11.53	180.47	8,900.27	252.45	-800.10	-159.42	10.00	10.00	0.00
9,100.00	21.53	180.47	8,996.02	224.04	-800.33	-131.17	10.00	10.00	0.00



Phoenix Technology Services LP

Planning Report



Database: Compass 5000 GCR
Company: Chevron
Project: Eddy County, NM (NAD27 NME)
Site: HH CE 35 02 Fed 006
Well: 6H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 6H
TVD Reference: GL + KB @ 3174.00usft
MD Reference: GL + KB @ 3174.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
9,200.00	31.53	180.47	9,085.38	179.44	-800.70	-86.82	10.00	10.00	0.00
9,300.00	41.53	180.47	9,165.64	120.00	-801.19	-27.72	10.00	10.00	0.00
9,400.00	51.53	180.47	9,234.36	47.53	-801.79	44.35	10.00	10.00	0.00
9,500.00	61.53	180.47	9,289.44	-35.78	-802.49	127.19	10.00	10.00	0.00
9,600.00	71.53	180.47	9,329.23	-127.38	-803.24	218.28	10.00	10.00	0.00
9,700.00	81.53	180.47	9,352.50	-224.50	-804.05	314.86	10.00	10.00	0.00
9,786.98	90.22	180.47	9,358.75	-311.17	-804.77	401.04	10.00	10.00	0.00
LP, Hold 90.22° Inc at 180.47° Azm									
9,800.00	90.22	180.47	9,358.70	-324.19	-804.88	413.99	0.00	0.00	0.00
9,900.00	90.22	180.47	9,358.31	-424.18	-805.70	513.42	0.00	0.00	0.00
10,000.00	90.22	180.47	9,357.93	-524.18	-806.53	612.86	0.00	0.00	0.00
10,100.00	90.22	180.47	9,357.54	-624.18	-807.36	712.30	0.00	0.00	0.00
10,200.00	90.22	180.47	9,357.15	-724.17	-808.19	811.73	0.00	0.00	0.00
10,300.00	90.22	180.47	9,356.76	-824.17	-809.02	911.17	0.00	0.00	0.00
10,400.00	90.22	180.47	9,356.37	-924.16	-809.85	1,010.61	0.00	0.00	0.00
10,500.00	90.22	180.47	9,355.98	-1,024.16	-810.68	1,110.04	0.00	0.00	0.00
10,600.00	90.22	180.47	9,355.59	-1,124.15	-811.51	1,209.48	0.00	0.00	0.00
10,700.00	90.22	180.47	9,355.20	-1,224.15	-812.34	1,308.91	0.00	0.00	0.00
10,800.00	90.22	180.47	9,354.81	-1,324.15	-813.17	1,408.35	0.00	0.00	0.00
10,900.00	90.22	180.47	9,354.42	-1,424.14	-813.99	1,507.79	0.00	0.00	0.00
11,000.00	90.22	180.47	9,354.04	-1,524.14	-814.82	1,607.22	0.00	0.00	0.00
11,100.00	90.22	180.47	9,353.65	-1,624.13	-815.65	1,706.66	0.00	0.00	0.00
11,200.00	90.22	180.47	9,353.26	-1,724.13	-816.48	1,806.09	0.00	0.00	0.00
11,300.00	90.22	180.47	9,352.87	-1,824.12	-817.31	1,905.53	0.00	0.00	0.00
11,400.00	90.22	180.47	9,352.48	-1,924.12	-818.14	2,004.97	0.00	0.00	0.00
11,500.00	90.22	180.47	9,352.09	-2,024.12	-818.97	2,104.40	0.00	0.00	0.00
11,600.00	90.22	180.47	9,351.70	-2,124.11	-819.80	2,203.84	0.00	0.00	0.00
11,700.00	90.22	180.47	9,351.31	-2,224.11	-820.63	2,303.28	0.00	0.00	0.00
11,780.18	90.22	180.47	9,351.00	-2,304.28	-821.29	2,383.00	0.00	0.00	0.00
Begin 2.00°/100' Drop & Turn									
11,784.66	90.15	180.53	9,350.99	-2,308.76	-821.33	2,387.46	2.00	-1.57	1.23
Hold 90.15° Inc at 180.53° Azm									
11,800.00	90.15	180.53	9,350.94	-2,324.10	-821.47	2,402.71	0.00	0.00	0.00
11,900.00	90.15	180.53	9,350.68	-2,424.10	-822.40	2,502.16	0.00	0.00	0.00
12,000.00	90.15	180.53	9,350.41	-2,524.09	-823.32	2,601.61	0.00	0.00	0.00
12,100.00	90.15	180.53	9,350.15	-2,624.09	-824.25	2,701.05	0.00	0.00	0.00
12,200.00	90.15	180.53	9,349.88	-2,724.09	-825.17	2,800.50	0.00	0.00	0.00
12,300.00	90.15	180.53	9,349.62	-2,824.08	-826.10	2,899.95	0.00	0.00	0.00
12,400.00	90.15	180.53	9,349.35	-2,924.08	-827.02	2,999.39	0.00	0.00	0.00
12,500.00	90.15	180.53	9,349.08	-3,024.07	-827.95	3,098.84	0.00	0.00	0.00
12,600.00	90.15	180.53	9,348.82	-3,124.07	-828.87	3,198.29	0.00	0.00	0.00
12,700.00	90.15	180.53	9,348.55	-3,224.06	-829.80	3,297.74	0.00	0.00	0.00
12,800.00	90.15	180.53	9,348.29	-3,324.06	-830.73	3,397.18	0.00	0.00	0.00
12,900.00	90.15	180.53	9,348.02	-3,424.05	-831.65	3,496.63	0.00	0.00	0.00
13,000.00	90.15	180.53	9,347.75	-3,524.05	-832.58	3,596.08	0.00	0.00	0.00
13,100.00	90.15	180.53	9,347.49	-3,624.04	-833.50	3,695.52	0.00	0.00	0.00
13,200.00	90.15	180.53	9,347.22	-3,724.04	-834.43	3,794.97	0.00	0.00	0.00
13,300.00	90.15	180.53	9,346.96	-3,824.03	-835.35	3,894.42	0.00	0.00	0.00
13,400.00	90.15	180.53	9,346.69	-3,924.03	-836.28	3,993.86	0.00	0.00	0.00
13,500.00	90.15	180.53	9,346.42	-4,024.02	-837.20	4,093.31	0.00	0.00	0.00
13,600.00	90.15	180.53	9,346.16	-4,124.02	-838.13	4,192.76	0.00	0.00	0.00
13,700.00	90.15	180.53	9,345.89	-4,224.02	-839.05	4,292.20	0.00	0.00	0.00
13,800.00	90.15	180.53	9,345.63	-4,324.01	-839.98	4,391.65	0.00	0.00	0.00



Phoenix Technology Services LP

Planning Report



Database: Compass 5000 GCR
Company: Chevron
Project: Eddy County, NM (NAD27 NME)
Site: HH CE 35 02 Fed 006
Well: 6H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 6H
TVD Reference: GL + KB @ 3174.00usft
MD Reference: GL + KB @ 3174.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
13,900.00	90.15	180.53	9,345.36	-4,424.01	-840.90	4,491.10	0.00	0.00	0.00
14,000.00	90.15	180.53	9,345.09	-4,524.00	-841.83	4,590.54	0.00	0.00	0.00
14,100.00	90.15	180.53	9,344.83	-4,624.00	-842.76	4,689.99	0.00	0.00	0.00
14,200.00	90.15	180.53	9,344.56	-4,723.99	-843.68	4,789.44	0.00	0.00	0.00
14,300.00	90.15	180.53	9,344.30	-4,823.99	-844.61	4,888.88	0.00	0.00	0.00
14,400.00	90.15	180.53	9,344.03	-4,923.98	-845.53	4,988.33	0.00	0.00	0.00
14,500.00	90.15	180.53	9,343.77	-5,023.98	-846.46	5,087.78	0.00	0.00	0.00
14,600.00	90.15	180.53	9,343.50	-5,123.97	-847.38	5,187.22	0.00	0.00	0.00
14,700.00	90.15	180.53	9,343.23	-5,223.97	-848.31	5,286.67	0.00	0.00	0.00
14,800.00	90.15	180.53	9,342.97	-5,323.96	-849.23	5,386.12	0.00	0.00	0.00
14,900.00	90.15	180.53	9,342.70	-5,423.96	-850.16	5,485.56	0.00	0.00	0.00
15,000.00	90.15	180.53	9,342.44	-5,523.96	-851.08	5,585.01	0.00	0.00	0.00
15,100.00	90.15	180.53	9,342.17	-5,623.95	-852.01	5,684.46	0.00	0.00	0.00
15,200.00	90.15	180.53	9,341.90	-5,723.95	-852.93	5,783.91	0.00	0.00	0.00
15,300.00	90.15	180.53	9,341.64	-5,823.94	-853.86	5,883.35	0.00	0.00	0.00
15,400.00	90.15	180.53	9,341.37	-5,923.94	-854.79	5,982.80	0.00	0.00	0.00
15,500.00	90.15	180.53	9,341.11	-6,023.93	-855.71	6,082.25	0.00	0.00	0.00
15,600.00	90.15	180.53	9,340.84	-6,123.93	-856.64	6,181.69	0.00	0.00	0.00
15,700.00	90.15	180.53	9,340.57	-6,223.92	-857.56	6,281.14	0.00	0.00	0.00
15,800.00	90.15	180.53	9,340.31	-6,323.92	-858.49	6,380.59	0.00	0.00	0.00
15,900.00	90.15	180.53	9,340.04	-6,423.91	-859.41	6,480.03	0.00	0.00	0.00
16,000.00	90.15	180.53	9,339.78	-6,523.91	-860.34	6,579.48	0.00	0.00	0.00
16,100.00	90.15	180.53	9,339.51	-6,623.90	-861.26	6,678.93	0.00	0.00	0.00
16,200.00	90.15	180.53	9,339.24	-6,723.90	-862.19	6,778.37	0.00	0.00	0.00
16,300.00	90.15	180.53	9,338.98	-6,823.90	-863.11	6,877.82	0.00	0.00	0.00
16,400.00	90.15	180.53	9,338.71	-6,923.89	-864.04	6,977.27	0.00	0.00	0.00
16,500.00	90.15	180.53	9,338.45	-7,023.89	-864.96	7,076.71	0.00	0.00	0.00
16,600.00	90.15	180.53	9,338.18	-7,123.88	-865.89	7,176.16	0.00	0.00	0.00
16,700.00	90.15	180.53	9,337.92	-7,223.88	-866.82	7,275.61	0.00	0.00	0.00
16,800.00	90.15	180.53	9,337.65	-7,323.87	-867.74	7,375.05	0.00	0.00	0.00
16,900.00	90.15	180.53	9,337.38	-7,423.87	-868.67	7,474.50	0.00	0.00	0.00
17,000.00	90.15	180.53	9,337.12	-7,523.86	-869.59	7,573.95	0.00	0.00	0.00
17,044.14	90.15	180.53	9,337.00	-7,568.00	-870.00	7,617.84	0.00	0.00	0.00
TD at 17044.14									



Phoenix Technology Services LP

Planning Report



Database: Compass 5000 GCR
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Site: HH CE 35 02 Fed 006
Well: 6H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 6H
TVD Reference: GL + KB @ 3174.00usft
MD Reference: GL + KB @ 3174.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
BHLv3 - HH CE 35 02	0.00	0.00	9,337.00	-7,568.00	-870.00	387,264.00	554,896.00	32° 3' 52.48860 N 104° 9' 22.04003 W	
- plan hits target center									
- Point									
LTPv3 - HH CE 35 02	0.00	0.00	9,339.44	-7,418.00	-869.00	387,414.00	554,897.00	32° 3' 53.97307 N 104° 9' 22.02555 W	
- plan misses target center by 2.08usft at 16894.13usft MD (9337.40 TVD, -7418.00 N, -868.61 E)									
- Point									
MPv3 - HH CE 35 02	0.00	0.00	9,351.00	-2,304.28	-821.29	392,527.72	554,944.71	32° 4' 44.58061 N 104° 9' 21.37340 W	
- plan hits target center									
- Point									
FTPv3 - HH CE 35 02	0.00	0.00	9,361.00	264.00	-774.00	395,096.00	554,992.00	32° 5' 9.99698 N 104° 9' 20.77461 W	
- plan misses target center by 240.58usft at 9329.80usft MD (9187.42 TVD, 99.68 N, -801.36 E)									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
2,721.31	2,713.71	28.31	-85.78	Hold 14.43° Inc at 288.26° Azm
5,377.64	5,286.29	235.69	-714.22	Begin 2.00°/100' Drop
6,098.95	6,000.00	264.00	-800.00	Begin Vertical Hold
8,884.75	8,785.80	264.00	-800.00	KOP2, Begin 10.00°/100' Build
9,786.98	9,358.75	-311.17	-804.77	LP, Hold 90.22° Inc at 180.47° Azm
11,780.18	9,351.00	-2,304.28	-821.29	Begin 2.00°/100' Drop & Turn
11,784.66	9,350.99	-2,308.76	-821.33	Hold 90.15° Inc at 180.53° Azm
17,044.14	9,337.00	-7,568.00	-870.00	TD at 17044.14

Directional Plan

PROPERTY NAME HH CE 35 2 FED 006
 WELL NUMBER 6H
 GL 3144
 KB -3172

Comment	MD (FT)	INC (DEG)	AZIMUTH (GN)	AZIMUTH (TN)	DX	DY	DXTN	DYTN	TVD (FT)	DLS (DEG/100')	X	Y	Z
KOP	0	0	314.145575	314.595366	0.2423901	48.0087999	0.61946348	48.0208448	0	0	1902577.73	11647089.74	3172
	126.425	0	314.145575	314.595366	0.2423901	48.0087999	0.61946348	48.0208448	130.425	0	1902577.73	11647089.74	3043.575
	167.935399	1.24531445	314.145575	314.595366	-0.081198	48.322878	0.29824781	48.3375552	171.93213	3	1902577.4	11647090.05	3002.06787
	209.445797	2.4906289	314.145575	314.595366	-1.0518092	49.2649639	-0.6652475	49.2875369	213.419653	3	1902576.43	11647090.99	2960.58035
	250.956196	3.73594334	314.145575	314.595366	-2.6689853	50.8346127	-2.2705672	50.8703411	254.867971	3	1902574.82	11647092.56	2919.13203
	292.466594	4.98125779	314.145575	314.595366	-4.9319621	53.0310828	-4.5169531	53.0852201	296.257504	3	1902572.55	11647094.76	2877.7425
	333.976993	6.22657224	314.145575	314.595366	-7.8396708	55.8533367	-7.4033439	55.9311276	337.5687	3	1902569.65	11647097.58	2836.4313
	375.487391	7.47188669	314.145575	314.595366	-11.390738	59.3000411	-10.928376	59.4067193	378.782044	3	1902566.1	11647101.03	2795.21796
	8723.52011	7.47188669	314.145575	314.595366	-790.11979	815.142646	-783.9482	821.584494	8655.92984	0	1901787.37	11647856.87	-5481.9298
	8749.96352	5.94974502	295.440279	295.89007	-792.59081	816.928614	-786.40592	823.390388	8682.19442	10	1901784.89	11647858.66	-5508.1944
	8776.40692	5.37716102	269.015436	269.465227	-795.06691	817.495971	-788.87828	823.977355	8708.51309	10	1901782.42	11647859.22	-5534.5131
	8802.85032	6.03094582	242.971936	243.421727	-797.54282	816.843508	-791.36004	823.344147	8734.8298	10	1901779.94	11647858.57	-5560.8298
	8829.29373	7.60097159	224.849071	225.298862	-800.01328	814.972516	-793.8459	821.492111	8761.08852	10	1901777.47	11647856.7	-5587.0885
	8855.73713	9.64992942	213.606504	214.056295	-802.47301	811.887278	-796.33058	818.425192	8787.2333	10	1901775.01	11647853.61	-5613.2333
	8882.18054	11.9336179	206.442196	206.891987	-804.91678	807.594065	-798.80878	814.149921	8813.20849	10	1901772.57	11647849.32	-5639.2085
	8908.62394	14.3403212	201.600329	202.05012	-807.33938	802.102121	-801.27522	808.675404	8838.95875	10	1901770.15	11647843.83	-5664.9587
	8935.06739	16.8172989	198.141853	198.591644	-809.73566	795.423141	-803.72464	802.013299	8864.42924	10	1901767.75	11647837.15	-5690.4292
	8961.51075	19.337555	195.555674	196.005465	-812.10951	787.571349	-806.15185	794.177794	8889.56573	10	1901765.39	11647829.3	-5715.5657
	8987.95416	21.8861326	193.548678	193.998468	-814.4289	778.563468	-808.55165	785.185577	8914.31468	10	1901763.06	11647820.29	-5740.3147
	9014.39756	24.4541671	191.943389	192.39316	-816.71586	768.418682	-810.91895	775.055798	8938.62338	10	1901760.77	11647810.15	-5764.6234
	9040.84097	27.0361028	190.627	191.076791	-818.95654	757.158594	-813.2487	763.81003	8962.44007	10	1901758.53	11647798.89	-5788.4401
	9067.26437	28.6282934	189.524742	189.974533	-821.14614	744.807187	-815.53595	751.472224	8985.71401	10	1901756.34	11647786.53	-5811.714
	9093.72777	32.2282517	188.585249	189.03504	-823.28002	731.390763	-817.77581	738.068654	9008.39566	10	1901754.21	11647773.12	-5834.3957
	9120.17118	34.8342252	187.772137	188.221928	-825.35362	716.937897	-819.96352	723.627866	9030.43669	10	1901752.13	11647758.66	-5856.4367
	9146.61456	37.4449443	187.058939	187.50873	-827.36254	701.479368	-822.09442	708.180614	9051.79017	10	1901750.12	11647743.21	-5877.7902
	9173.05799	40.059467	186.425951	186.875742	-829.30249	685.048097	-824.16397	691.759796	9072.41063	10	1901748.18	11647726.78	-5898.4106
	9199.50139	42.6770793	185.858207	186.307998	-831.16934	667.679079	-826.16776	674.400383	9092.25414	10	1901746.32	11647709.41	-5918.2541
	9225.9448	45.2972303	185.344129	185.79392	-832.95911	649.409303	-828.10153	656.139346	9111.27846	10	1901744.53	11647691.14	-5937.2785
	9252.3882	47.9194875	184.874615	185.324406	-834.668	630.277678	-829.96117	637.015573	9129.44306	10	1901742.82	11647672	-5955.4431
	9278.83161	50.5435064	184.442403	184.892194	-836.29237	610.324948	-831.74269	617.069793	9146.70925	10	1901741.19	11647652.05	-5972.7093
	9305.27501	53.1690088	184.041621	184.491412	-837.82875	589.593607	-833.44233	596.344483	9163.04028	10	1901739.66	11647631.32	-5989.0403
	9331.71642	55.795767	183.66746	184.117251	-839.27397	566.127805	-835.05644	574.683783	9178.40135	10	1901735.21	11647609.85	-6004.4013
	9358.16182	58.4235925	183.315932	183.765723	-840.62466	545.973258	-836.58161	552.733396	9192.75875	10	1901736.86	11647587.7	-6018.7598
	9384.60522	61.0523273	182.983696	183.433467	-841.87823	523.177147	-838.01457	529.940495	9206.08491	10	1901735.61	11647564.9	-6032.0849
	9411.04863	63.6818376	182.667919	183.11771	-843.03193	499.788022	-839.35228	506.553623	9218.34844	10	1901734.45	11647541.52	-6044.3484
	9437.49203	66.3120088	182.366171	182.815962	-844.08329	475.855693	-840.55188	482.622585	9229.52424	10	1901733.4	11647517.58	-6055.5242
	9463.93544	68.9427415	182.076347	182.526138	-845.03007	451.431129	-841.73075	458.198347	9239.58849	10	1901732.46	11647493.16	-6065.5885
	9490.37884	71.5739486	181.796599	182.24639	-845.87026	426.566346	-842.76645	433.332925	9248.51976	10	1901731.62	11647468.29	-6074.5196
	9516.62225	74.2055532	181.525289	181.97508	-846.60207	401.314298	-843.69677	408.079275	9256.29904	10	1901730.86	11647442.04	-6082.299
	9543.26565	76.8374856	181.260944	181.710735	-847.22393	375.728764	-844.51974	382.491177	9262.90975	10	1901730.26	11647417.45	-6088.9096
	9569.70906	79.4696826	181.002222	181.452013	-847.73453	349.864232	-845.2336	356.623128	9268.33782	10	1901729.75	11647391.59	-6094.3378
	9596.15246	82.1020859	180.747885	181.197675	-848.13276	323.775787	-845.83884	330.530217	9272.57169	10	1901729.35	11647365.5	-6098.5717
	9622.59587	84.734641	180.496771	180.946562	-848.41782	297.516987	-846.32815	304.268014	9275.60234	10	1901729.07	11647339.25	-6101.6023
	9649.03927	87.3672958	180.247776	180.697567	-848.58906	271.149752	-846.70652	277.892449	9277.42331	10	1901728.9	11647312.88	-6103.4233
First Take Point	9675.48267	90	179.999833	180.449624	-846.64613	244.72424	-846.97112	251.459694	9278.03074	10	1901728.84	11647286.45	-6104.0307
	9688.68946	90.1207358	179.946308	180.396099	-848.63992	231.521718	-847.06859	238.253281	9278.01682	1	1901728.85	11647273.25	-6104.0168
	9701.89624	90.2414715	179.892784	180.342575	-848.62138	218.318266	-847.15373	225.046841	9277.97508	1	1901728.86	11647260.05	-6103.9751
Mid point	12326.359	90.2414715	179.892784	180.342575	-843.71363	-2405.2712	-862.8453	-2399.3457	9266.91438	0	1901733.77	11644636.46	-6092.9144
	12337.8159	90.1525167	179.964986	180.414777	-843.69943	-2416.7243	-862.92102	-2410.8023	9266.87499	1	1901733.75	11644625	-6092.875
	12349.2728	90.0635616	180.037187	180.486976	-843.69967	-2428.1774	-863.01117	-2422.2568	9266.85339	1	1901733.79	11644613.55	-6092.8534
Last Take Point	17345.6107	90.0635616	180.037187	180.486978	-846.95621	-7422.9036	-905.47637	-7419.4132	9261.31066	0	1901730.53	11639618.82	-6087.3107
Bottom Hole Location	17495.6107	90.0635616	180.037187	180.486978	-847.05421	-7572.8552	-906.75126	-7568.4077	9261.14425	0	1901730.43	11639468.87	-6087.1443

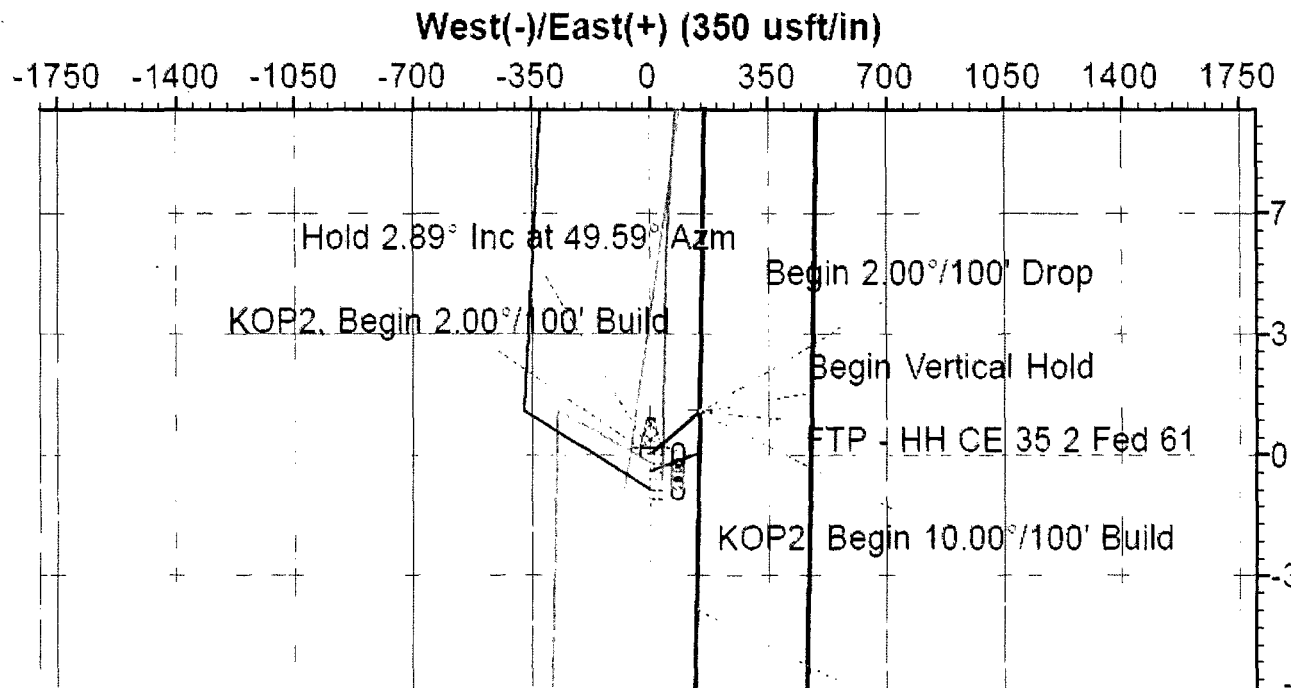
From C-102 to be used for directional planning		
Lat	Lon	TVD (FT)
32 085382	104 153272	
32 08811	104 155771	9278 03074
32 078815	104 155939	9266 91438
32 064993	104 156118	9261 31066
32 064658	104 156123	9261 14425

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 Segment	surface csg in a #/ft	Grade	17 1/2 inch hole. Coupling	Joint	<u>Design Factors</u>		SURFACE		
"A"	54.50	K 55	ST&C	22.30	Collapse	Burst	Length	Weight	
"B"					5.56	0.61	450	24,525	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500			Tail Cmt	does	circ to sfc.	Totals:	450	24,525	
<u>Comparison of Proposed to Minimum Required Cement Volumes</u>									
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist 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 Segment	casing inside the #/ft	Grade	13 3/8	Coupling	Joint	Design Factors		INTERMEDIATE	
"A"	43.50	L 80		LT&C	2.07	Collapse	Burst	Length	Weight
"B"						1.29	1.24	9,015	392,153
								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 Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.3132	look v	0	2864		9.50	3039	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

Tail cmt									
5 1/2	casing inside the	9 5/8				<u>Design Factors</u>		PRODUCTION	
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	20.00	P 110	BUTT	3.43	2.29	2.48	8,885	177,700	
"B"	20.00	P 110	BUTT	8.18	1.96	2.48	8,159	163,180	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,955							Totals:	17,044	340,880
B	would be:			70.92	2.18	if it were a vertical wellbore.			
No Pilot Hole Planned		MTD	Max VTD	Csg VD	Curve KOP	Dogleg	Severity	MEQC	
		17044	9337	9337	8885	90	10	9787	
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 3/4	0.2526	3048	3662	2540	44	10.50			1.33