

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.
NMNM114968

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 62H2. Name of Operator
CHEVRON USA INCORPORATEDContact: DORIAN K FUENTES
E-Mail: DJVO@CHEVRON.COM9. API Well No.
30-015-44346-00-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 2489FSL 475FEL
32.085777 N Lat, 104.153755 W Lon11. 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 take 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 & well number change from HH CE 35 2 FED 62H to HH CE 35 2 FED 006 2H. **320468**

BHL from 280 S & 750 E to 180 S & 330 E
FTP from 2640 S & 750 E to 2651 S & 330 E
LTP from 330 S & 750 E to 330 S & 330 E

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 #386733 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 (18PP0015SE)

RECEIVED

Name (Printed/Typed) DORIAN K FUENTES

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 08/30/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By ZQTA 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 ****

RwP 12-5-17

Additional data for EC transaction #386733 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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr
Santa Fe, NM 87505
Phone (505) 476-3461 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 1 201
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44346	Post Code 98220	Post Name Purple Sage; Wolfcamp (Gas)
Property Code 31B938	Property Name HH CE 35 02 FED 006	Well Number 2H
GRID No 4323	Operator Name CHEVRON U.S.A. INC	Elevation 3144'

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.		2489'	SOUTH	475'	EAST	EDDY

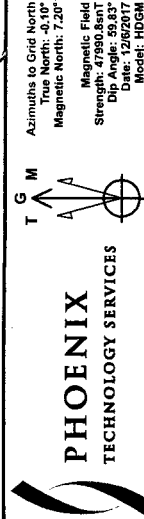
Bottom Hole Location If Different From Surface

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	330'	EAST	EDDY

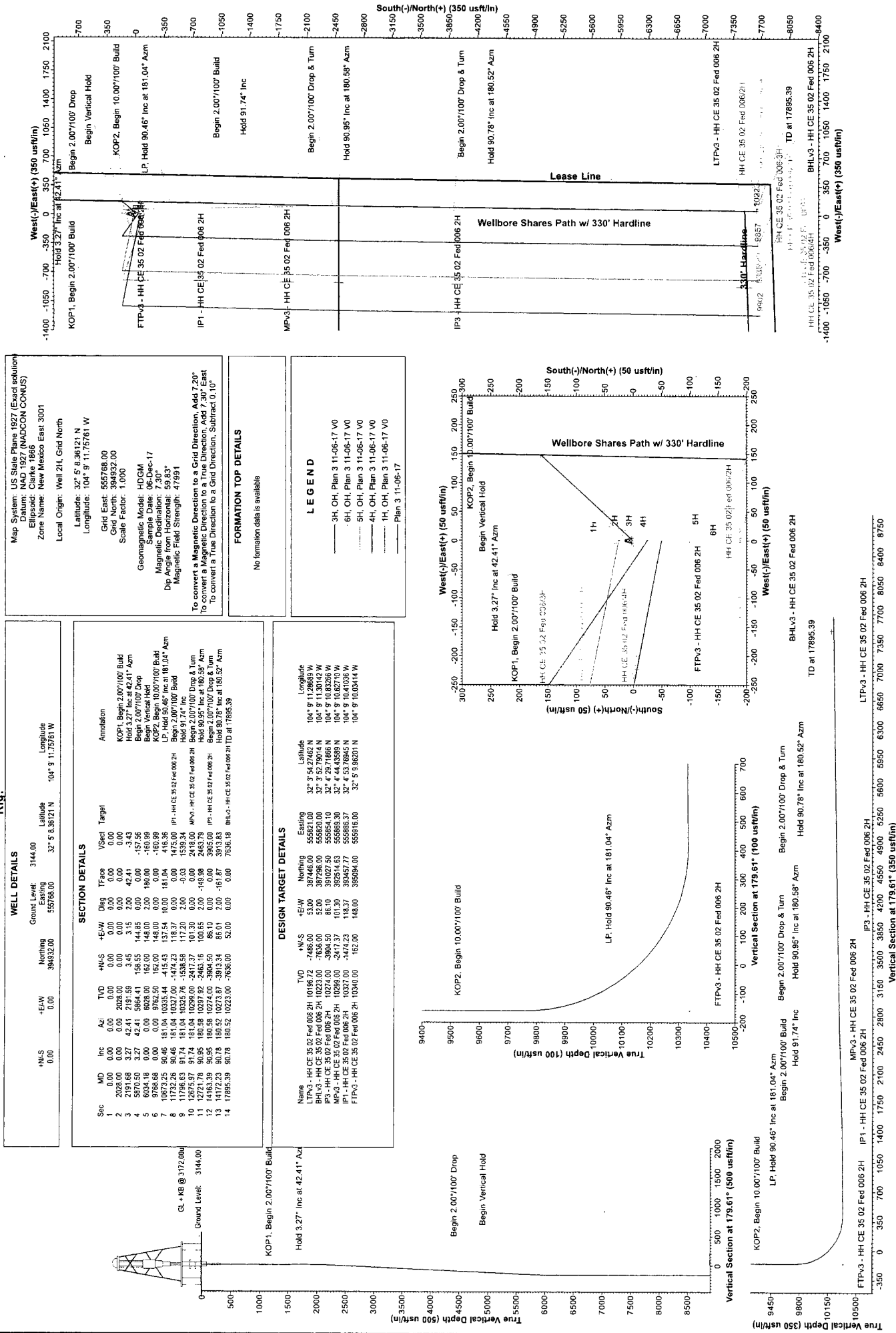
Dedicated Acre 640	Unit Info	Consolidation Code	Order No
------------------------------	-----------	--------------------	----------

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= 555,916 NAD 27 Y= 395,094 LAT 32.086101 LONG 104.152788 X= 557,100 NAD83 Y= 395,152 LAT 32.086224 LONG 104.153279 MID POINT X= 555,868 NAD 27 Y= 392,443 LAT 32.078813 LONG 104.152955 X= 597,052 NAD83 Y= 392,500 LAT 32.078935 LONG 104.153447 PROPOSED LAST TAKE POINT X= 555,821 NAD 27 Y= 387,446 LAT 32.065077 LONG 104.153134 X= 597,005 NAD83 Y= 387,503 LAT 32.065199 LONG 104.153625	CORNER COORDINATES TABLE (NAD 27) A Y=397933.25 X=553702.88 B Y=397744.31 X=556293.47 C Y=392440.48 X=553545.40 D Y=392443.13 X=556198.44 E Y=387033.94 X=553461.53 F Y=387127.27 X=556146.39 PROPOSED BOTTOM HOLE LOCATION X= 555,820 NAD 27 Y= 387,296 LAT 32.064664 LONG 104.153139 X= 597,004 NAD83 Y= 387,353 LAT 32.064786 LONG 104.153631	OPERATOR CERTIFICATION I hereby certify that the information furnished herein is true and correct to the best of my knowledge and belief, and that the organization, the well interest, and the location of the well are as shown on this plat. Signature: <i>[Signature]</i> Date: 8-29-17 Printed Name: Horacio K. Fuentes Address: 4700 Cheyenne Dr 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: 11-10-2016 Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 23006
---	---	---



Azimuths to Grid North
 True North: -0.10°
 Magnetic North: 7.20°
 Magnetic Field
 Strength: 47990.8 nT
 Dip Angle: 59.83°
 Date: 12/6/2017
 Model: HDGM





Chevron

Eddy County, NM (NAD27 NME)

HH CE 35 02 Fed 006

2H

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: 2H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 2H
TVD Reference: GL + KB @ 3172.00usft
MD Reference: GL + KB @ 3172.00usft
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:		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	2H				
Well Position	+N/-S	100.01 usft	Northing:	394,932.00 usft	Latitude:
	+E/-W	2.00 usft	Easting:	555,768.00 usft	Longitude:
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level:
					3,144.00 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	179.61

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	
2,028.00	0.00	0.00	2,028.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,191.68	3.27	42.41	2,191.59	3.45	3.15	2.00	2.00	0.00	42.41	
5,870.50	3.27	42.41	5,864.41	158.55	144.85	0.00	0.00	0.00	0.00	
6,034.18	0.00	0.00	6,028.00	162.00	148.00	2.00	-2.00	0.00	180.00	
9,768.68	0.00	0.00	9,762.50	162.00	148.00	0.00	0.00	0.00	0.00	
10,673.25	90.46	181.04	10,335.44	-415.43	137.54	10.00	10.00	-19.78	181.04	
11,732.26	90.46	181.04	10,327.00	-1,474.23	118.37	0.00	0.00	0.00	0.00	IP1 - HH CE 35 02
11,796.63	91.74	181.04	10,325.76	-1,538.58	117.20	2.00	2.00	0.00	-0.03	
12,675.97	91.74	181.04	10,299.00	-2,417.37	101.30	0.00	0.00	0.00	0.00	MPV3 - HH CE 35 C
12,721.78	90.95	180.58	10,297.92	-2,463.16	100.65	2.00	-1.73	-1.00	-149.98	
14,163.39	90.95	180.58	10,274.00	-3,904.50	86.10	0.00	0.00	0.00	0.00	IP3 - HH CE 35 02
14,172.23	90.78	180.52	10,273.87	-3,913.34	86.01	2.00	-1.90	-0.62	-161.87	
17,895.39	90.78	180.52	10,223.00	-7,636.00	52.00	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: 2H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 2H
TVD Reference: GL + KB @ 3172.00usft
MD Reference: GL + KB @ 3172.00usft
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
2,028.00	0.00	0.00	2,028.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP1, Begin 2.00°/100' Build									
2,100.00	1.44	42.41	2,099.99	0.67	0.61	-0.66	2.00	2.00	0.00
2,191.68	3.27	42.41	2,191.59	3.45	3.15	-3.43	2.00	2.00	0.00
Hold 3.27° Inc at 42.41° Azm									
2,200.00	3.27	42.41	2,199.90	3.80	3.47	-3.78	0.00	0.00	0.00
2,300.00	3.27	42.41	2,299.73	8.02	7.33	-7.97	0.00	0.00	0.00
2,400.00	3.27	42.41	2,399.57	12.23	11.18	-12.16	0.00	0.00	0.00
2,500.00	3.27	42.41	2,499.41	16.45	15.03	-16.35	0.00	0.00	0.00
2,600.00	3.27	42.41	2,599.24	20.67	18.88	-20.54	0.00	0.00	0.00
2,700.00	3.27	42.41	2,699.08	24.88	22.73	-24.73	0.00	0.00	0.00
2,800.00	3.27	42.41	2,798.92	29.10	26.58	-28.92	0.00	0.00	0.00
2,900.00	3.27	42.41	2,898.76	33.31	30.43	-33.11	0.00	0.00	0.00
3,000.00	3.27	42.41	2,998.59	37.53	34.29	-37.30	0.00	0.00	0.00
3,100.00	3.27	42.41	3,098.43	41.75	38.14	-41.48	0.00	0.00	0.00
3,200.00	3.27	42.41	3,198.27	45.96	41.99	-45.67	0.00	0.00	0.00
3,300.00	3.27	42.41	3,298.10	50.18	45.84	-49.86	0.00	0.00	0.00
3,400.00	3.27	42.41	3,397.94	54.39	49.69	-54.05	0.00	0.00	0.00
3,500.00	3.27	42.41	3,497.78	58.61	53.54	-58.24	0.00	0.00	0.00
3,600.00	3.27	42.41	3,597.61	62.83	57.40	-62.43	0.00	0.00	0.00
3,700.00	3.27	42.41	3,697.45	67.04	61.25	-66.62	0.00	0.00	0.00
3,800.00	3.27	42.41	3,797.29	71.26	65.10	-70.81	0.00	0.00	0.00
3,900.00	3.27	42.41	3,897.12	75.47	68.95	-75.00	0.00	0.00	0.00
4,000.00	3.27	42.41	3,996.96	79.69	72.80	-79.19	0.00	0.00	0.00
4,100.00	3.27	42.41	4,096.80	83.91	76.65	-83.38	0.00	0.00	0.00
4,200.00	3.27	42.41	4,196.63	88.12	80.51	-87.57	0.00	0.00	0.00
4,300.00	3.27	42.41	4,296.47	92.34	84.36	-91.76	0.00	0.00	0.00
4,400.00	3.27	42.41	4,396.31	96.55	88.21	-95.95	0.00	0.00	0.00
4,500.00	3.27	42.41	4,496.14	100.77	92.06	-100.14	0.00	0.00	0.00
4,600.00	3.27	42.41	4,595.98	104.98	95.91	-104.33	0.00	0.00	0.00
4,700.00	3.27	42.41	4,695.82	109.20	99.76	-108.52	0.00	0.00	0.00
4,800.00	3.27	42.41	4,795.65	113.42	103.62	-112.71	0.00	0.00	0.00
4,900.00	3.27	42.41	4,895.49	117.63	107.47	-116.90	0.00	0.00	0.00
5,000.00	3.27	42.41	4,995.33	121.85	111.32	-121.09	0.00	0.00	0.00
5,100.00	3.27	42.41	5,095.17	126.06	115.17	-125.28	0.00	0.00	0.00
5,200.00	3.27	42.41	5,195.00	130.28	119.02	-129.47	0.00	0.00	0.00
5,300.00	3.27	42.41	5,294.84	134.50	122.87	-133.66	0.00	0.00	0.00
5,400.00	3.27	42.41	5,394.68	138.71	126.73	-137.85	0.00	0.00	0.00
5,500.00	3.27	42.41	5,494.51	142.93	130.58	-142.04	0.00	0.00	0.00
5,600.00	3.27	42.41	5,594.35	147.14	134.43	-146.23	0.00	0.00	0.00
5,700.00	3.27	42.41	5,694.19	151.36	138.28	-150.42	0.00	0.00	0.00
5,800.00	3.27	42.41	5,794.02	155.58	142.13	-154.61	0.00	0.00	0.00
5,870.50	3.27	42.41	5,864.41	158.55	144.85	-157.56	0.00	0.00	0.00
Begin 2.00°/100' Drop									
5,900.00	2.68	42.41	5,893.87	159.68	145.88	-158.68	2.00	-2.00	0.00
6,000.00	0.68	42.41	5,993.82	161.85	147.86	-160.84	2.00	-2.00	0.00
6,034.18	0.00	0.00	6,028.00	162.00	148.00	-160.99	2.00	-2.00	0.00
Begin Vertical Hold									
9,768.68	0.00	0.00	9,762.50	162.00	148.00	-160.99	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
9,800.00	3.13	181.04	9,793.80	161.14	147.98	-160.13	10.00	10.00	0.00
9,900.00	13.13	181.04	9,892.67	147.02	147.73	-146.01	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: 2H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 2H
TVD Reference: GL + KB @ 3172.00usft
MD Reference: GL + KB @ 3172.00usft
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)
10,000.00	23.13	181.04	9,987.59	115.94	147.17	-114.94	10.00	10.00	0.00
10,100.00	33.13	181.04	10,075.66	68.86	146.31	-67.86	10.00	10.00	0.00
10,200.00	43.13	181.04	10,154.22	7.20	145.20	-6.21	10.00	10.00	0.00
10,300.00	53.13	181.04	10,220.88	-67.16	143.85	68.14	10.00	10.00	0.00
10,400.00	63.13	181.04	10,273.61	-151.96	142.31	152.93	10.00	10.00	0.00
10,500.00	73.13	181.04	10,310.81	-244.64	140.64	245.59	10.00	10.00	0.00
10,600.00	83.13	181.04	10,331.35	-342.36	138.87	343.30	10.00	10.00	0.00
10,673.25	90.46	181.04	10,335.44	-415.43	137.54	416.36	10.00	10.00	0.00
LP, Hold 90.46° Inc at 181.04° Azm									
10,700.00	90.46	181.04	10,335.23	-442.18	137.06	443.10	0.00	0.00	0.00
10,800.00	90.46	181.04	10,334.43	-542.16	135.25	543.07	0.00	0.00	0.00
10,900.00	90.46	181.04	10,333.63	-642.14	133.44	643.03	0.00	0.00	0.00
11,000.00	90.46	181.04	10,332.84	-742.12	131.63	743.00	0.00	0.00	0.00
11,100.00	90.46	181.04	10,332.04	-842.10	129.82	842.96	0.00	0.00	0.00
11,200.00	90.46	181.04	10,331.24	-942.08	128.01	942.93	0.00	0.00	0.00
11,300.00	90.46	181.04	10,330.45	-1,042.06	126.20	1,042.89	0.00	0.00	0.00
11,400.00	90.46	181.04	10,329.65	-1,142.04	124.39	1,142.86	0.00	0.00	0.00
11,500.00	90.46	181.04	10,328.85	-1,242.02	122.58	1,242.83	0.00	0.00	0.00
11,600.00	90.46	181.04	10,328.05	-1,342.00	120.76	1,342.79	0.00	0.00	0.00
11,700.00	90.46	181.04	10,327.26	-1,441.98	118.95	1,442.76	0.00	0.00	0.00
11,732.26	90.46	181.04	10,327.00	-1,474.23	118.37	1,475.00	0.00	0.00	0.00
Begin 2.00°/100° Build									
11,796.63	91.74	181.04	10,325.76	-1,538.58	117.20	1,539.34	2.00	2.00	0.00
Hold 91.74° Inc									
11,800.00	91.74	181.04	10,325.66	-1,541.95	117.14	1,542.71	0.00	0.00	0.00
11,900.00	91.74	181.04	10,322.62	-1,641.89	115.34	1,642.63	0.00	0.00	0.00
12,000.00	91.74	181.04	10,319.57	-1,741.82	113.53	1,742.56	0.00	0.00	0.00
12,100.00	91.74	181.04	10,316.53	-1,841.76	111.72	1,842.48	0.00	0.00	0.00
12,200.00	91.74	181.04	10,313.49	-1,941.70	109.91	1,942.40	0.00	0.00	0.00
12,300.00	91.74	181.04	10,310.44	-2,041.64	108.10	2,042.32	0.00	0.00	0.00
12,400.00	91.74	181.04	10,307.40	-2,141.57	106.29	2,142.25	0.00	0.00	0.00
12,500.00	91.74	181.04	10,304.36	-2,241.51	104.48	2,242.17	0.00	0.00	0.00
12,600.00	91.74	181.04	10,301.31	-2,341.45	102.67	2,342.09	0.00	0.00	0.00
12,675.97	91.74	181.04	10,299.00	-2,417.37	101.30	2,418.00	0.00	0.00	0.00
Begin 2.00°/100° Drop & Turn									
12,700.00	91.33	180.80	10,298.36	-2,441.39	100.92	2,442.02	2.00	-1.73	-1.00
12,721.78	90.95	180.58	10,297.92	-2,463.16	100.65	2,463.79	2.00	-1.73	-1.00
Hold 90.95° Inc at 180.58° Azm									
12,800.00	90.95	180.58	10,296.62	-2,541.37	99.86	2,541.99	0.00	0.00	0.00
12,900.00	90.95	180.58	10,294.97	-2,641.35	98.86	2,641.96	0.00	0.00	0.00
13,000.00	90.95	180.58	10,293.31	-2,741.33	97.85	2,741.93	0.00	0.00	0.00
13,100.00	90.95	180.58	10,291.65	-2,841.31	96.84	2,841.90	0.00	0.00	0.00
13,200.00	90.95	180.58	10,289.99	-2,941.29	95.83	2,941.88	0.00	0.00	0.00
13,300.00	90.95	180.58	10,288.33	-3,041.27	94.82	3,041.85	0.00	0.00	0.00
13,400.00	90.95	180.58	10,286.67	-3,141.25	93.81	3,141.82	0.00	0.00	0.00
13,500.00	90.95	180.58	10,285.01	-3,241.24	92.80	3,241.79	0.00	0.00	0.00
13,600.00	90.95	180.58	10,283.35	-3,341.22	91.79	3,341.76	0.00	0.00	0.00
13,700.00	90.95	180.58	10,281.69	-3,441.20	90.78	3,441.74	0.00	0.00	0.00
13,800.00	90.95	180.58	10,280.03	-3,541.18	89.77	3,541.71	0.00	0.00	0.00
13,900.00	90.95	180.58	10,278.37	-3,641.16	88.76	3,641.68	0.00	0.00	0.00
14,000.00	90.95	180.58	10,276.71	-3,741.14	87.75	3,741.65	0.00	0.00	0.00
14,100.00	90.95	180.58	10,275.05	-3,841.12	86.74	3,841.62	0.00	0.00	0.00
14,163.39	90.95	180.58	10,274.00	-3,904.50	86.10	3,905.00	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: 2H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 2H
TVD Reference: GL + KB @ 3172.00usft
MD Reference: GL + KB @ 3172.00usft
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)
Begin 2.00°/100' Drop & Turn									
14,172.23	90.78	180.52	10,273.87	-3,913.34	86.01	3,913.83	2.00	-1.90	-0.62
Hold 90.78° Inc at 180.52° Azm									
14,200.00	90.78	180.52	10,273.49	-3,941.10	85.76	3,941.60	0.00	0.00	0.00
14,300.00	90.78	180.52	10,272.12	-4,041.09	84.85	4,041.58	0.00	0.00	0.00
14,400.00	90.78	180.52	10,270.75	-4,141.08	83.93	4,141.55	0.00	0.00	0.00
14,500.00	90.78	180.52	10,269.39	-4,241.06	83.02	4,241.53	0.00	0.00	0.00
14,600.00	90.78	180.52	10,268.02	-4,341.05	82.11	4,341.51	0.00	0.00	0.00
14,700.00	90.78	180.52	10,266.66	-4,441.04	81.19	4,441.49	0.00	0.00	0.00
14,800.00	90.78	180.52	10,265.29	-4,541.02	80.28	4,541.47	0.00	0.00	0.00
14,900.00	90.78	180.52	10,263.92	-4,641.01	79.37	4,641.44	0.00	0.00	0.00
15,000.00	90.78	180.52	10,262.56	-4,741.00	78.45	4,741.42	0.00	0.00	0.00
15,100.00	90.78	180.52	10,261.19	-4,840.98	77.54	4,841.40	0.00	0.00	0.00
15,200.00	90.78	180.52	10,259.82	-4,940.97	76.62	4,941.38	0.00	0.00	0.00
15,300.00	90.78	180.52	10,258.46	-5,040.96	75.71	5,041.35	0.00	0.00	0.00
15,400.00	90.78	180.52	10,257.09	-5,140.94	74.80	5,141.33	0.00	0.00	0.00
15,500.00	90.78	180.52	10,255.73	-5,240.93	73.88	5,241.31	0.00	0.00	0.00
15,600.00	90.78	180.52	10,254.36	-5,340.92	72.97	5,341.29	0.00	0.00	0.00
15,700.00	90.78	180.52	10,252.99	-5,440.90	72.06	5,441.27	0.00	0.00	0.00
15,800.00	90.78	180.52	10,251.63	-5,540.89	71.14	5,541.24	0.00	0.00	0.00
15,900.00	90.78	180.52	10,250.26	-5,640.88	70.23	5,641.22	0.00	0.00	0.00
16,000.00	90.78	180.52	10,248.90	-5,740.86	69.32	5,741.20	0.00	0.00	0.00
16,100.00	90.78	180.52	10,247.53	-5,840.85	68.40	5,841.18	0.00	0.00	0.00
16,200.00	90.78	180.52	10,246.16	-5,940.83	67.49	5,941.16	0.00	0.00	0.00
16,300.00	90.78	180.52	10,244.80	-6,040.82	66.57	6,041.13	0.00	0.00	0.00
16,400.00	90.78	180.52	10,243.43	-6,140.81	65.66	6,141.11	0.00	0.00	0.00
16,500.00	90.78	180.52	10,242.06	-6,240.79	64.75	6,241.09	0.00	0.00	0.00
16,600.00	90.78	180.52	10,240.70	-6,340.78	63.83	6,341.07	0.00	0.00	0.00
16,700.00	90.78	180.52	10,239.33	-6,440.77	62.92	6,441.05	0.00	0.00	0.00
16,800.00	90.78	180.52	10,237.97	-6,540.75	62.01	6,541.02	0.00	0.00	0.00
16,900.00	90.78	180.52	10,236.60	-6,640.74	61.09	6,641.00	0.00	0.00	0.00
17,000.00	90.78	180.52	10,235.23	-6,740.73	60.18	6,740.98	0.00	0.00	0.00
17,100.00	90.78	180.52	10,233.87	-6,840.71	59.27	6,840.96	0.00	0.00	0.00
17,200.00	90.78	180.52	10,232.50	-6,940.70	58.35	6,940.94	0.00	0.00	0.00
17,300.00	90.78	180.52	10,231.13	-7,040.69	57.44	7,040.91	0.00	0.00	0.00
17,400.00	90.78	180.52	10,229.77	-7,140.67	56.52	7,140.89	0.00	0.00	0.00
17,500.00	90.78	180.52	10,228.40	-7,240.66	55.61	7,240.87	0.00	0.00	0.00
17,600.00	90.78	180.52	10,227.04	-7,340.65	54.70	7,340.85	0.00	0.00	0.00
17,700.00	90.78	180.52	10,225.67	-7,440.63	53.78	7,440.83	0.00	0.00	0.00
17,800.00	90.78	180.52	10,224.30	-7,540.62	52.87	7,540.80	0.00	0.00	0.00
17,895.39	90.78	180.52	10,223.00	-7,636.00	52.00	7,636.18	0.00	0.00	0.00
TD at 17895.39									



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: 2H
Wellbore: OH
Design: Plan 3 11-06-17

Local Co-ordinate Reference: Well 2H
TVD Reference: GL + KB @ 3172.00usft
MD Reference: GL + KB @ 3172.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 - plan misses target center by 28.33usft at 17745.76usft MD (10225.04 TVD, -7486.39 N, 53.37 E) - Point	0.00	0.00	10,196.72	-7,486.00	53.00	387,446.00	555,821.00	32° 3' 54.27462 N 104° 9' 11.28689 W	
BHLv3 - HH CE 35 02 - plan hits target center - Point	0.00	0.01	10,223.00	-7,636.00	52.00	387,296.00	555,820.00	32° 3' 52.79015 N 104° 9' 11.30142 W	
IP3 - HH CE 35 02 Fe - plan hits target center - Point	0.00	0.01	10,274.00	-3,904.50	86.10	391,027.50	555,854.10	32° 4' 29.71866 N 104° 9' 10.83266 W	
MPv3 - HH CE 35 02 - plan hits target center - Point	0.00	0.01	10,299.00	-2,417.37	101.30	392,514.63	555,869.30	32° 4' 44.43589 N 104° 9' 10.62710 W	
IP1 - HH CE 35 02 Fe - plan hits target center - Point	0.00	0.01	10,327.00	-1,474.23	118.37	393,457.77	555,886.37	32° 4' 53.76946 N 104° 9' 10.41036 W	
FTPv3 - HH CE 35 02 - plan misses target center by 240.99usft at 10208.71usft MD (10160.53 TVD, 1.20 N, 145.09 E) - Point	0.00	0.00	10,340.00	162.00	148.00	395,094.00	555,916.00	32° 5' 9.96201 N 104° 9' 10.03414 W	

Plan Annotations

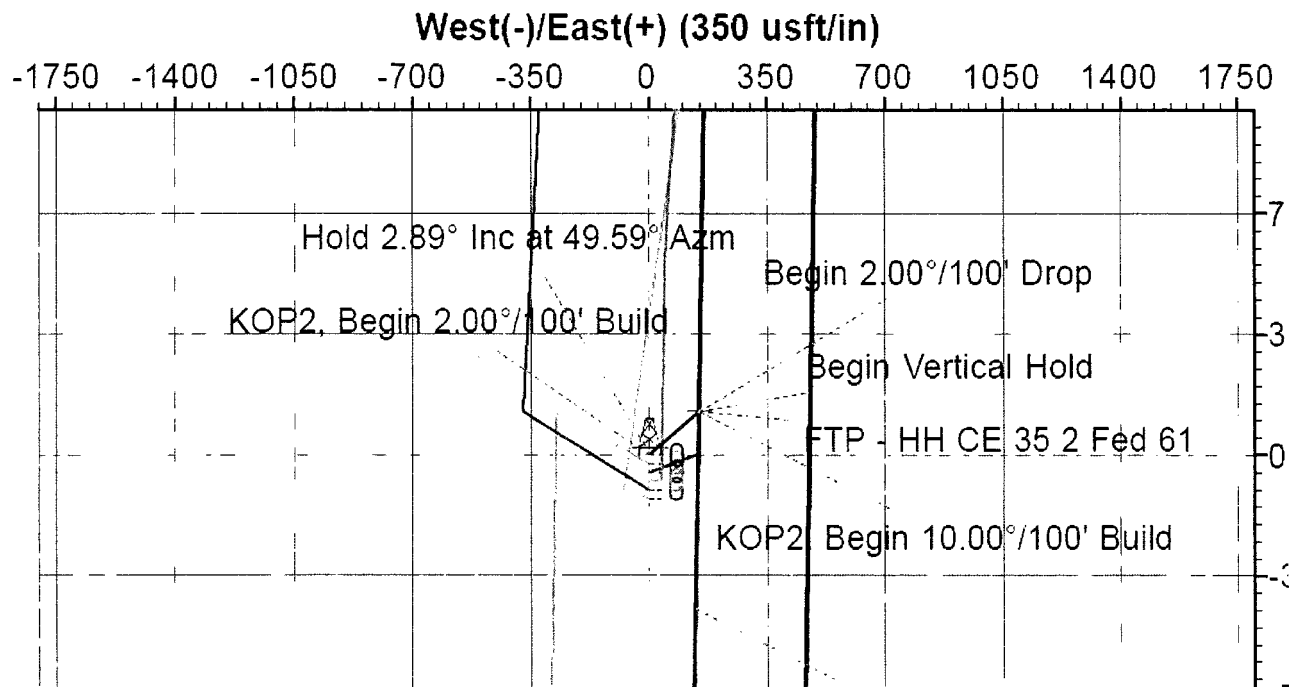
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,028.00	2,028.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
2,191.68	2,191.59	3.45	3.15	Hold 3.27° Inc at 42.41° Azm
5,870.50	5,864.41	158.55	144.85	Begin 2.00°/100' Drop
6,034.18	6,028.00	162.00	148.00	Begin Vertical Hold
9,768.68	9,762.50	162.00	148.00	KOP2, Begin 10.00°/100' Build
10,673.25	10,335.44	-415.43	137.54	LP, Hold 90.46° Inc at 181.04° Azm
11,732.26	10,327.00	-1,474.23	118.37	Begin 2.00°/100' Build
11,796.63	10,325.76	-1,538.58	117.20	Hold 91.74° Inc
12,675.97	10,299.00	-2,417.37	101.30	Begin 2.00°/100' Drop & Turn
12,721.78	10,297.92	-2,463.16	100.65	Hold 90.95° Inc at 180.58° Azm
14,163.39	10,274.00	-3,904.50	86.10	Begin 2.00°/100' Drop & Turn
14,172.23	10,273.87	-3,913.34	86.01	Hold 90.78° Inc at 180.52° Azm
17,895.39	10,223.00	-7,636.00	52.00	TD at 17895.39

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	17 1/2 Grade	inch hole. Coupling	Joint	Design Factors		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	
Comparison of Proposed to Minimum Required Cement Volumes									
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	13 3/8 Grade	Coupling	Joint	Design Factors		INTERMEDIATE		
"A"			LT&C	2.07	Collapse	Burst	Length	Weight	
"B"	43.50	L 80			1.29	0.95	9,015	392,153	
w/8.4#/g mud, 30min Sfc Csg Test psig:							0	0	
The cement volume(s) are intended to achieve a top of					0	Totals:	9,015	392,153	
					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 ↘	0	2864		9.50	4389	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				<u>Design Factors</u>		<u>PRODUCTION</u>	
Segment	#/ft	Grade	Coupling	Joint		Collapse	Burst	Length	Weight
"A"	20.00	P 110	BUTT	3.14		1.75	1.9	9,769	195,380
"B"	20.00	P 110	BUTT	8.15		1.54	1.9	8,126	162,520
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,149							Totals:	17,895	357,900
B	would be:			70.59		1.67	if it were a vertical wellbore.		
No Pilot Hole Planned			MTD	Max VTD	Csg VTD	Curve KOP	Dogleg"	Severity"	MEOC
			17895	10223	10223	9769	91	10	10673
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	3223	3872	2755	41	12.50			1.33