

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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	7. Lease Name or Unit Agreement Name HAYHURST 16 25 27 STATE
2. Name of Operator Chevron USA, Inc.	8. Well Number 1H
3. Address of Operator 15 Smith Road Midland, TX 79705	9. OGRID Number 4323
4. Well Location Unit Letter <u>C</u> : 175' feet from the <u>North</u> line and <u>2280</u> feet from the <u>West</u> line Section <u>16</u> Township <u>25S</u> Range <u>27E</u> NMPM County <u>Eddy</u>	10. Pool name or Wildcat WC G-02 S2527 15A ; BONE SPRING
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3212' GL	

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

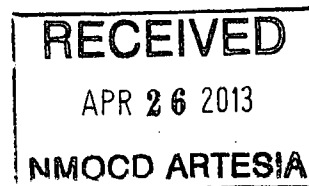
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: Move Surface Hole Location ☒

OTHER: ☐

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

Please find our request to move the surface location of this well in order to accomodate a larger drilling rig.
The amended NMOCD C-102 plat, C-144 (CLEZ) pit permit and directional surveys are attached.
The NSL application is to be/has been submitted.



Spud Date:

Rig Release Date:

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

SIGNATURE Bryan Arrant TITLE Regulatory Specialist II DATE 04/19/2013

Type or print name Bryan Arrant (Agent for Chevron) E-mail address: bryan.arrant@chkc.com PHONE: (405)935-3782

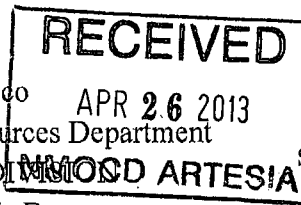
For State Use Only

APPROVED BY: J. Wade TITLE Dist. H Supervisor DATE 5/1/2013

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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

¹ API Number 30-015-41120	² Pool Code 97816	³ Pool Name WILDCAT G-02 S2527 15A; BONE SPRING
⁴ Property Code 39726	⁵ Property Name HAYHURST 16 25 27 STATE	
⁷ GRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁶ Well Number 1H
		⁹ Elevation 3212'

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
C	16	25 SOUTH	27 EAST, N.M.P.M.		175'	NORTH	2280'	WEST	EDDY

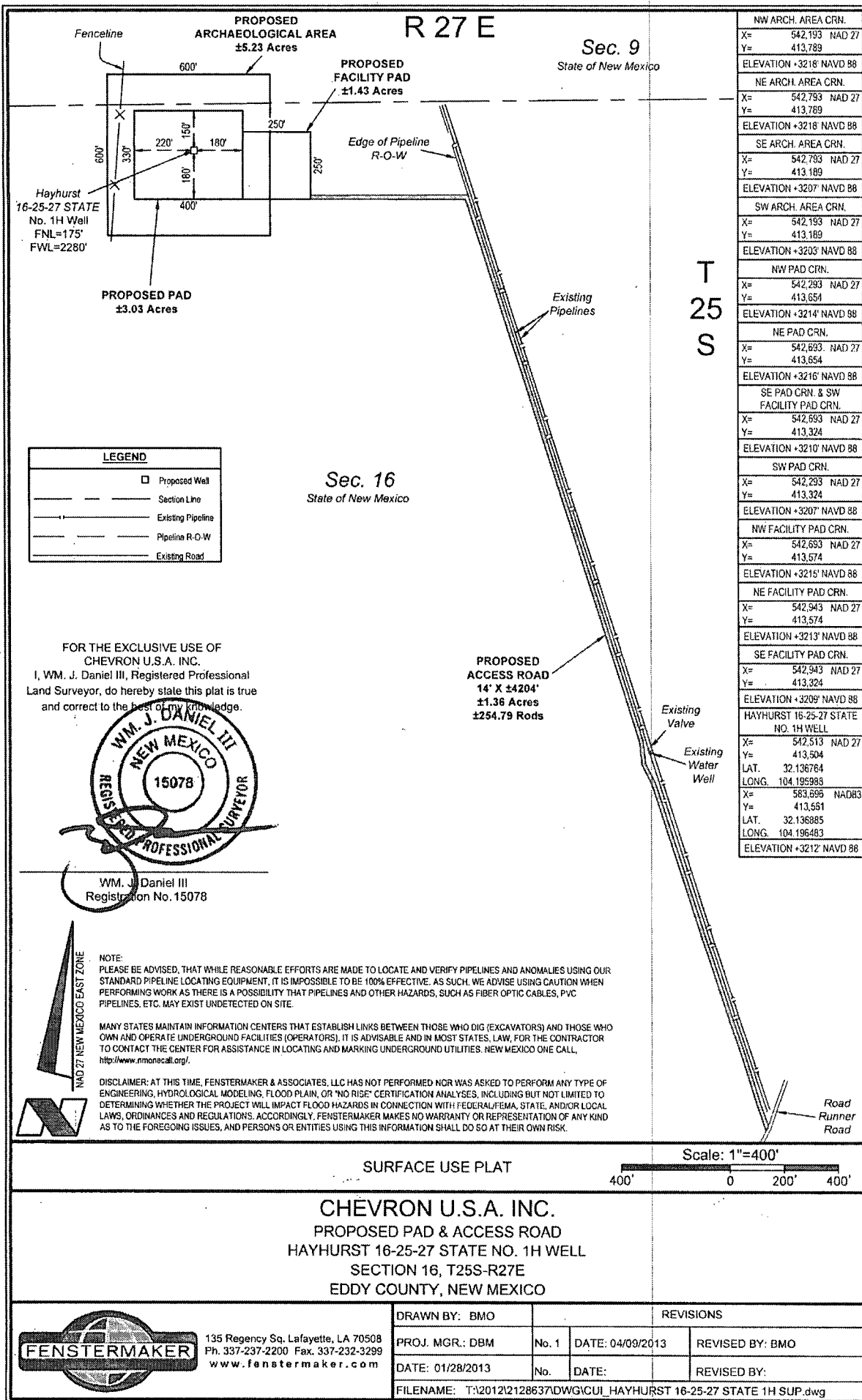
¹¹ Bottom Hole Location If Different From Surface

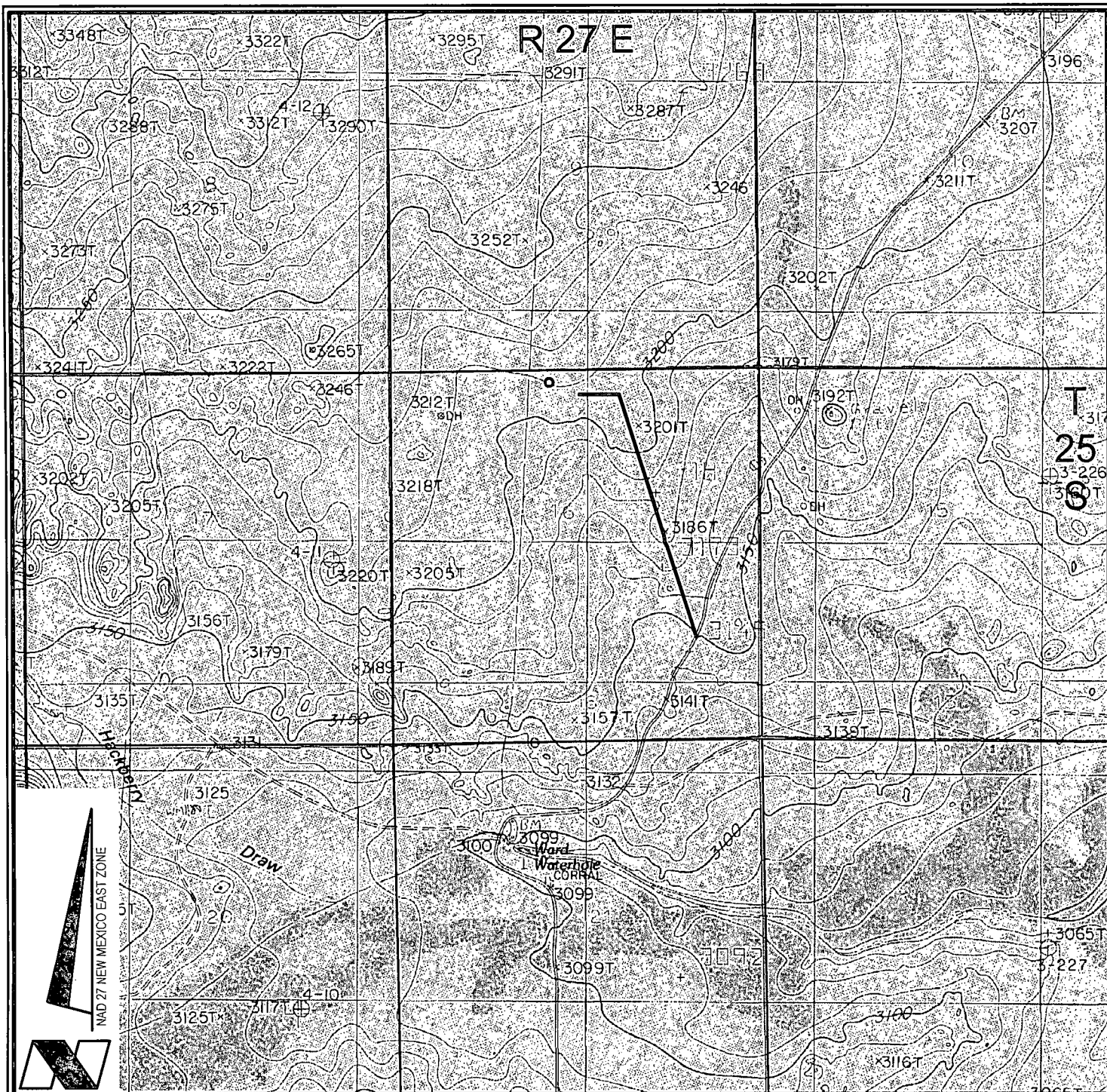
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	25 SOUTH	27 EAST, N.M.P.M.		250'	SOUTH	2280'	WEST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ HAYHURST 16 25 27 STATE NO. 1H WELL X= 542,513 NAD 27 Y= 413,504 LAT. 32.136764 LONG. 104.195988 X= 583,696 NAD 83 Y= 413,561 LAT. 32.136885 LONG. 104.196483 ELEVATION +3212' NAVD 88 PROPOSED BOTTOM HOLE LOCATION X= 542,530 NAD 27 Y= 408,636 LAT. 32.123382 LONG. 104.195953 X= 583,714 NAD 83 Y= 408,693 LAT. 32.123503 LONG. 104.196448	¹⁷ OPERATOR CERTIFICATION <i>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 in the land 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.</i> <i>Bryan Arrant</i> 4/19/2013 Signature Date Bryan Arrant (Agent for Chevron) Printed Name bryan.arrant@chk.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 4-18-13 Date of Survey <i>WM. J. DANIEL III</i> Signature and Seal of Professional Surveyor 15078 Certificate Number #15078
--	---





VICINITY MAP

2000' 0 1000' 2000'
Scale: 1" = 2000'

CHEVRON U.S.A. INC.

HAYHURST 16-25-27 STATE NO. 1H WELL
LOCATED 175' FNL AND 2280' FWL
SECTION 16, T25S-R27E
EDDY COUNTY, NEW MEXICO



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

DRAWN BY: BMO

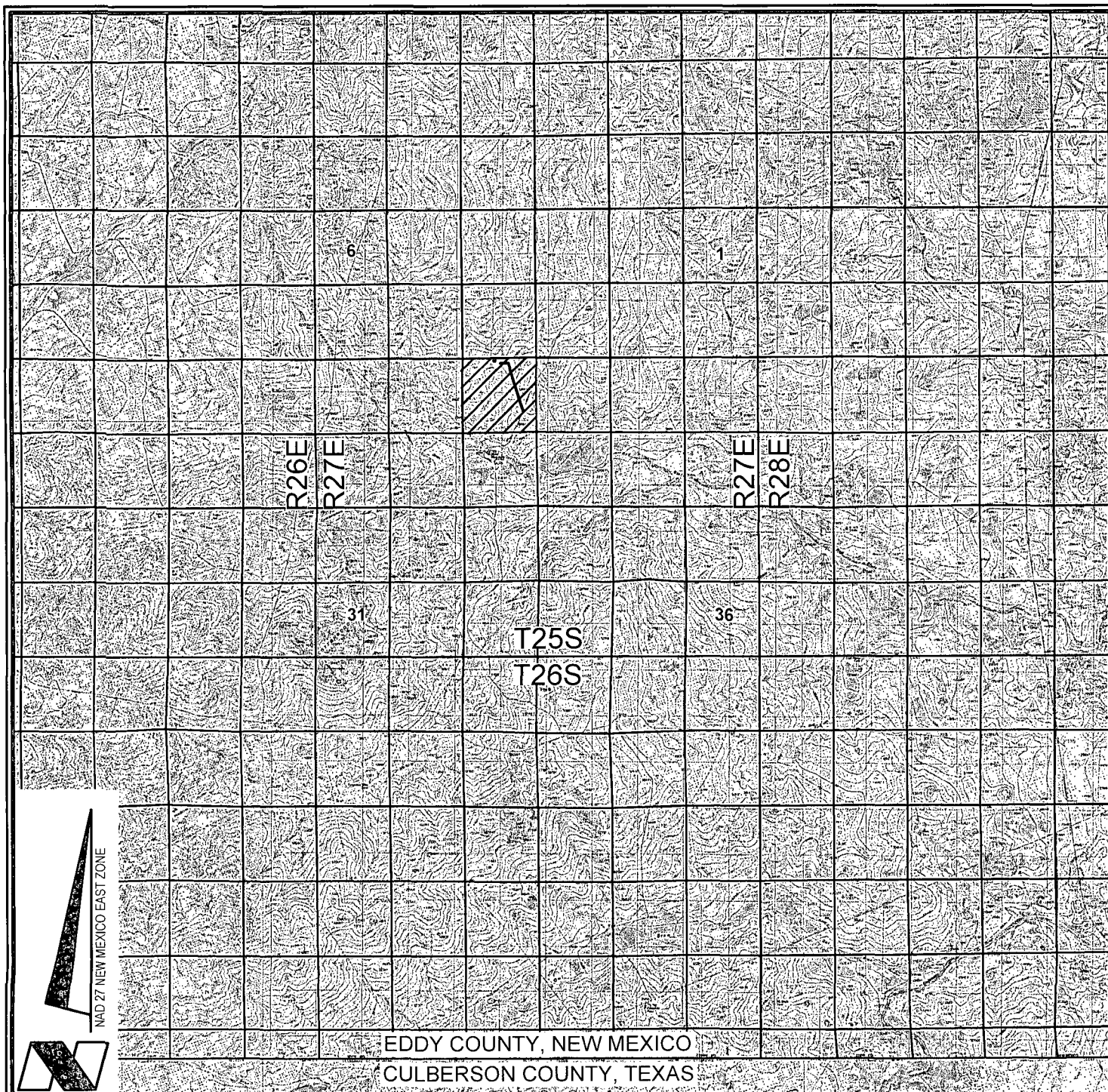
PROJ. MGR.: DBM

REVISED: 04/09/2013 BMO

DATE: 01/28/2013

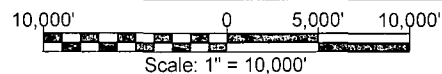
SHEET 1 OF 3 SHEETS

FILENAME: T:\2012\2128637\DWG\CUI_HAYHURST 16-25-27 STATE 1H APD.dwg



EDDY COUNTY, NEW MEXICO
CULBERSON COUNTY, TEXAS

VICINITY MAP



CHEVRON U.S.A. INC.

HAYHURST 16-25-27 STATE NO. 1H WELL

LOCATED 175' FNL AND 2280' FWL

SECTION 16, T25S-R27E

EDDY COUNTY, NEW MEXICO



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

DRAWN BY: BMO

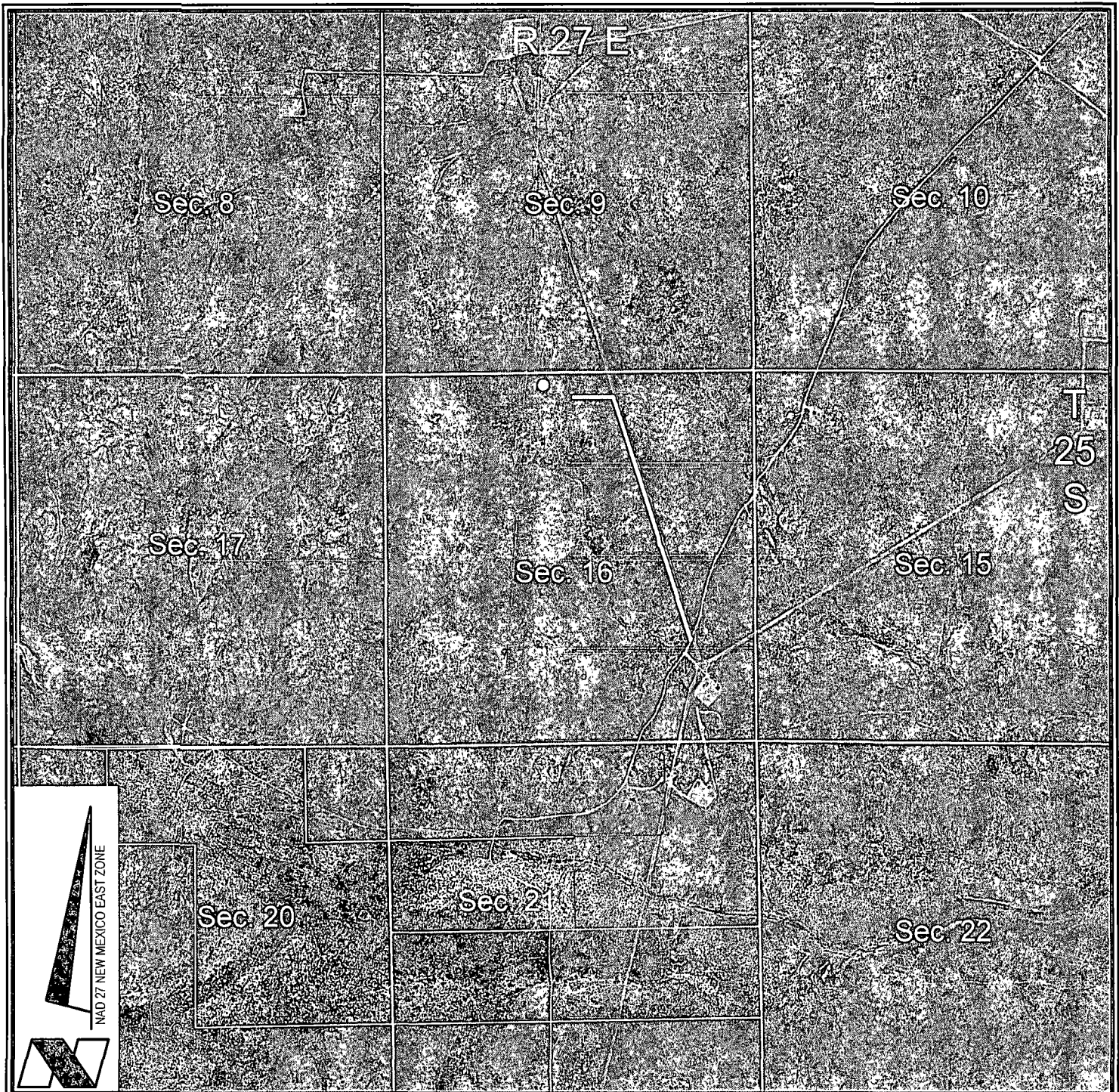
PROJ. MGR.: DBM

REVISED: 04/09/2013 BMO

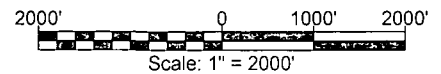
DATE: 01/28/2013

SHEET 2 OF 3 SHEETS

FILENAME: T:\2012\2128637\DWG\CUI_HAYHURST 16-25-27 STATE 1H APD.dwg



VICINITY MAP



-  = FEDERAL LAND
-  = FEE LAND
-  = STATE LAND

CHEVRON U.S.A. INC.
HAYHURST 16-25-27 STATE NO. 1H WELL
LOCATED 175' FNL AND 2280' FWL
SECTION 16, T25S-R27E
EDDY COUNTY, NEW MEXICO



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

DRAWN BY: BMO

PROJ. MGR.: DBM

REVISED: 04/09/2013 BMO

DATE: 01/28/2013

SHEET 3 OF 3 SHEETS

FILENAME: T:\2012\2128637\DWG\CUI_HAYHURST 16-25-27 STATE 1H APD.dwg

Permian District
NM - Bone Spring Sand Project
Hayhurst 16-25-27 State 1H
Well #1



Wellbore #1

Plan: Plat 18Apr13

Standard Planning Report

22 April, 2013

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Hayhurst 16-25-27 State 1H
Company:	Permian District	TVD Reference:	RKB @ 3230.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3230.0usft
Site:	Hayhurst 16-25-27 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 18Apr13		

Project	NM - Bone Spring Sand Project		
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	Hayhurst 16-25-27 State 1H		
Site Position:		Northing:	413,504.00 ft
From:	Map	Easting:	542,513.00 ft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	32° 8' 12.34442630 N
		Longitude:	104° 11' 45.56970514 W
		Grid Convergence:	0.07 °

Well	Well #1		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,213.0 usft
		Latitude:	32° 8' 12.34442630 N
		Longitude:	104° 11' 45.56970514 W
		Ground Level:	3,213.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	2/11/2013	7.66
			Dip Angle
			59.96
			Field Strength
			48,330

Design	Plat 18Apr13		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.80

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,064.2	0.00	0.00	7,064.2	0.0	0.0	0.00	0.00	0.00	0.00	
7,812.5	89.80	179.80	7,541.7	-475.8	1.7	12.00	12.00	0.00	179.80	
12,204.8	89.80	179.80	7,557.0	-4,868.0	17.0	0.00	0.00	0.00	0.00	Hayhurst 16-25-27

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Hayhurst 16-25-27 State 1H
Company:	Permian District	TVD Reference:	RKB @ 3230.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3230.0usft
Site:	Hayhurst 16-25-27 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 18Apr13		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Hayhurst 16-25-27 State 1H
Company:	Permian District	TVD Reference:	RKB @ 3230.0usft
Project:	NM- Bone Spring Sand Project	MD Reference:	RKB @ 3230.0usft
Site:	Hayhurst 16-25-27 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 18Apr13		

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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,064.2	0.00	0.00	7,064.2	0.0	0.0	0.0	0.00	0.00	0.00
7,075.0	1.30	179.80	7,075.0	-0.1	0.0	0.1	12.00	12.00	0.00
7,100.0	4.30	179.80	7,100.0	-1.3	0.0	1.3	12.00	12.00	0.00
7,125.0	7.30	179.80	7,124.8	-3.9	0.0	3.9	12.00	12.00	0.00
7,150.0	10.30	179.80	7,149.5	-7.7	0.0	7.7	12.00	12.00	0.00
7,175.0	13.30	179.80	7,174.0	-12.8	0.0	12.8	12.00	12.00	0.00
7,200.0	16.30	179.80	7,198.2	-19.2	0.1	19.2	12.00	12.00	0.00
7,225.0	19.30	179.80	7,222.0	-26.8	0.1	26.8	12.00	12.00	0.00
7,250.0	22.30	179.80	7,245.3	-35.7	0.1	35.7	12.00	12.00	0.00
7,275.0	25.30	179.80	7,268.2	-45.8	0.2	45.8	12.00	12.00	0.00
7,300.0	28.30	179.80	7,290.5	-57.0	0.2	57.0	12.00	12.00	0.00
7,325.0	31.30	179.80	7,312.2	-69.5	0.2	69.5	12.00	12.00	0.00
7,350.0	34.30	179.80	7,333.2	-83.0	0.3	83.0	12.00	12.00	0.00
7,375.0	37.30	179.80	7,353.5	-97.6	0.3	97.6	12.00	12.00	0.00
7,400.0	40.30	179.80	7,373.0	-113.3	0.4	113.3	12.00	12.00	0.00
7,425.0	43.30	179.80	7,391.6	-130.0	0.5	130.0	12.00	12.00	0.00
7,450.0	46.30	179.80	7,409.4	-147.6	0.5	147.6	12.00	12.00	0.00
7,475.0	49.30	179.80	7,426.2	-166.1	0.6	166.1	12.00	12.00	0.00
7,500.0	52.30	179.80	7,442.0	-185.4	0.6	185.5	12.00	12.00	0.00
7,525.0	55.30	179.80	7,456.7	-205.6	0.7	205.6	12.00	12.00	0.00
7,550.0	58.30	179.80	7,470.4	-226.5	0.8	226.5	12.00	12.00	0.00
7,575.0	61.30	179.80	7,483.0	-248.1	0.9	248.1	12.00	12.00	0.00
7,600.0	64.30	179.80	7,494.4	-270.4	0.9	270.4	12.00	12.00	0.00
7,625.0	67.30	179.80	7,504.7	-293.2	1.0	293.2	12.00	12.00	0.00
7,650.0	70.30	179.80	7,513.7	-316.5	1.1	316.5	12.00	12.00	0.00
7,675.0	73.30	179.80	7,521.5	-340.2	1.2	340.2	12.00	12.00	0.00
7,700.0	76.30	179.80	7,528.1	-364.3	1.3	364.3	12.00	12.00	0.00
7,725.0	79.30	179.80	7,533.4	-388.8	1.4	388.8	12.00	12.00	0.00
7,750.0	82.30	179.80	7,537.4	-413.4	1.4	413.5	12.00	12.00	0.00
7,775.0	85.30	179.80	7,540.1	-438.3	1.5	438.3	12.00	12.00	0.00
7,800.0	88.30	179.80	7,541.5	-463.3	1.6	463.3	12.00	12.00	0.00
7,812.5	89.80	179.80	7,541.7	-475.8	1.7	475.8	12.00	12.00	0.00
7,900.0	89.80	179.80	7,542.0	-563.3	2.0	563.3	0.00	0.00	0.00
8,000.0	89.80	179.80	7,542.3	-663.3	2.3	663.3	0.00	0.00	0.00
8,100.0	89.80	179.80	7,542.7	-763.3	2.7	763.3	0.00	0.00	0.00
8,200.0	89.80	179.80	7,543.0	-863.3	3.0	863.3	0.00	0.00	0.00
8,300.0	89.80	179.80	7,543.4	-963.2	3.4	963.3	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Hayhurst 16-25-27 State 1H
Company:	Permian District	TVD Reference:	RKB @ 3230.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3230.0usft
Site:	Hayhurst 16-25-27 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 18Apr13		

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)
8,400.0	89.80	179.80	7,543.7	-1,063.2	3.7	1,063.3	0.00	0.00	0.00
8,500.0	89.80	179.80	7,544.1	-1,163.2	4.1	1,163.3	0.00	0.00	0.00
8,600.0	89.80	179.80	7,544.4	-1,263.2	4.4	1,263.3	0.00	0.00	0.00
8,700.0	89.80	179.80	7,544.8	-1,363.2	4.8	1,363.3	0.00	0.00	0.00
8,800.0	89.80	179.80	7,545.1	-1,463.2	5.1	1,463.3	0.00	0.00	0.00
8,900.0	89.80	179.80	7,545.5	-1,563.2	5.5	1,563.3	0.00	0.00	0.00
9,000.0	89.80	179.80	7,545.8	-1,663.2	5.8	1,663.3	0.00	0.00	0.00
9,100.0	89.80	179.80	7,546.2	-1,763.2	6.2	1,763.3	0.00	0.00	0.00
9,200.0	89.80	179.80	7,546.5	-1,863.2	6.5	1,863.3	0.00	0.00	0.00
9,300.0	89.80	179.80	7,546.9	-1,963.2	6.9	1,963.2	0.00	0.00	0.00
9,400.0	89.80	179.80	7,547.2	-2,063.2	7.2	2,063.2	0.00	0.00	0.00
9,500.0	89.80	179.80	7,547.6	-2,163.2	7.6	2,163.2	0.00	0.00	0.00
9,600.0	89.80	179.80	7,547.9	-2,263.2	7.9	2,263.2	0.00	0.00	0.00
9,700.0	89.80	179.80	7,548.3	-2,363.2	8.3	2,363.2	0.00	0.00	0.00
9,800.0	89.80	179.80	7,548.6	-2,463.2	8.6	2,463.2	0.00	0.00	0.00
9,900.0	89.80	179.80	7,549.0	-2,563.2	9.0	2,563.2	0.00	0.00	0.00
10,000.0	89.80	179.80	7,549.3	-2,663.2	9.3	2,663.2	0.00	0.00	0.00
10,100.0	89.80	179.80	7,549.7	-2,763.2	9.6	2,763.2	0.00	0.00	0.00
10,200.0	89.80	179.80	7,550.0	-2,863.2	10.0	2,863.2	0.00	0.00	0.00
10,300.0	89.80	179.80	7,550.4	-2,963.2	10.3	2,963.2	0.00	0.00	0.00
10,400.0	89.80	179.80	7,550.7	-3,063.2	10.7	3,063.2	0.00	0.00	0.00
10,500.0	89.80	179.80	7,551.0	-3,163.2	11.0	3,163.2	0.00	0.00	0.00
10,600.0	89.80	179.80	7,551.4	-3,263.2	11.4	3,263.2	0.00	0.00	0.00
10,700.0	89.80	179.80	7,551.7	-3,363.2	11.7	3,363.2	0.00	0.00	0.00
10,800.0	89.80	179.80	7,552.1	-3,463.2	12.1	3,463.2	0.00	0.00	0.00
10,900.0	89.80	179.80	7,552.4	-3,563.2	12.4	3,563.2	0.00	0.00	0.00
11,000.0	89.80	179.80	7,552.8	-3,663.2	12.8	3,663.2	0.00	0.00	0.00
11,100.0	89.80	179.80	7,553.1	-3,763.2	13.1	3,763.2	0.00	0.00	0.00
11,200.0	89.80	179.80	7,553.5	-3,863.2	13.5	3,863.2	0.00	0.00	0.00
11,300.0	89.80	179.80	7,553.8	-3,963.2	13.8	3,963.2	0.00	0.00	0.00
11,400.0	89.80	179.80	7,554.2	-4,063.2	14.2	4,063.2	0.00	0.00	0.00
11,500.0	89.80	179.80	7,554.5	-4,163.2	14.5	4,163.2	0.00	0.00	0.00
11,600.0	89.80	179.80	7,554.9	-4,263.2	14.9	4,263.2	0.00	0.00	0.00
11,700.0	89.80	179.80	7,555.2	-4,363.2	15.2	4,363.2	0.00	0.00	0.00
11,800.0	89.80	179.80	7,555.6	-4,463.2	15.6	4,463.2	0.00	0.00	0.00
11,900.0	89.80	179.80	7,555.9	-4,563.2	15.9	4,563.2	0.00	0.00	0.00
12,000.0	89.80	179.80	7,556.3	-4,663.2	16.3	4,663.2	0.00	0.00	0.00
12,100.0	89.80	179.80	7,556.6	-4,763.2	16.6	4,763.2	0.00	0.00	0.00
12,204.8	89.80	179.80	7,557.0	-4,868.0	17.0	4,868.0	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Hayhurst 16-25-27 St:	0.00	0.00	0.0	0.0	0.0	413,504.00	542,513.00	8° 8' 12.34442630 N	11° 45.56970514 W
- plan hits target center									
- Point									
Hayhurst 16-25-27 St:	0.00	0.00	7,557.0	-4,868.0	17.0	408,636.00	542,530.00	7° 24.16812839 N	11° 45.44418607 W
- plan hits target center									
- Point									

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Hayhurst 16-25-27 State 1H
Company:	Permian District	TVD Reference:	RKB @ 3230.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3230.0usft
Site:	Hayhurst 16-25-27 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 18Apr13		

Project: NM - Bone Spring Sand Project
 Site: Hayhurst 16-25-27 State 1H
 Well: Well #1
 Wellbore: Wellbore #1
 Design: Plat 18Apr13

PROJECT DETAILS: NM - Bone Spring Sand Project

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

