

District I
4625 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

RECEIVED
Energy Minerals and Natural Resources
JAN 10 2013
Oil Conservation Division
NMOCD ARTESIA
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised November 14, 2012

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Chevron USA, Inc. 15 Smith Road Midland, TX 79705		² OGRID Number 4323
⁴ Property Code 39582	³ Property Name WEST SHUGART 2 19 30 STATE	⁵ API Number 30-015-40953
		⁶ Well No. 2H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
I	2	19S	30E		1920'	S	350'	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
L	2	19S	30E		1920'	S	350'	W	Eddy

9. Pool Information

BENSON; BONE SPRING	Pool Name	Pool Code 5200
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Additional Well Information

¹¹ Work Type N	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3517'
¹⁶ Multiple N	¹⁷ Proposed Depth 12,986'	¹⁸ Formation Bone Spring	¹⁹ Contractor TBD	²⁰ Spud Date
Depth to Ground water 200'-350'		Distance from nearest fresh water well @ 1 Mile		Distance to nearest surface water > 1.3 miles

21. Proposed Casing and Cement Program

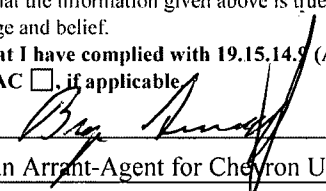
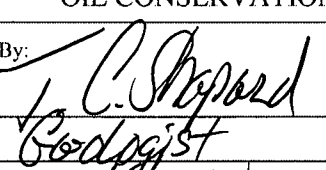
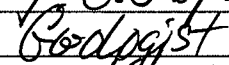
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	48#	650'	685	0'
Intermediate	12 1/4"	9 5/8"	40#	2050'	450	0'
Inter. (2)	8 3/4"	7"	29#	8887'	400	0'

Casing/Cement Program: Additional Comments

Please see attached for the production liner and other information.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ if applicable. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Bryan Arrant-Agent for Chevron USA, Inc.		Approved By: 	
Title: Regulatory Specialist II		Title: 	
E-mail Address: bryan.arrant@chk.com		Approved Date: 1/19/2013 Expiration Date: 1/11/2015	
Date: 01/08/2013	Phone: (405)935-3782	Conditions of Approval Attached	

West Shugart 2-19-30 State 2H

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	
Surface	17.5	13.375	48	650	685	
Intermediate	12.25	9.625	40	2050	450	
Intermediate	8.75	7	29	8887	400	
Production Liner	6.125	4.5	13.5	12986	Packers (no cement)	

Surface hole will be drilled with fresh water mud.

Intermediate and production sections will be drilled with brine and cut brine muds.

There are no records indicating high levels of H₂S in this area.

Well location is east of KPLA boundary.

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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 30-015-40953	² Pool Code (5200)	³ Pool Name BENSON; BONE SPRING
⁴ Property Code 39552	⁵ Property Name WEST SHUGART 2-19 30 STATE	
⁶ Well Number 2H	⁷ Operator Name CHEVRON U.S.A. INC.	
⁸ OGRID No. 4323	⁹ Elevation 3517'	

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	2	19S	30E, N.M.P.M.		1920'	SOUTH	350'	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
L	2	19S	30E, N.M.P.M.		1920'	SOUTH	350'	WEST	EDDY

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

¹⁶ PROPOSED BOTTOM HOLE LOCATION X= 618,064 NAD 27 Y= 613,958 LAT. 32.687282 LONG. 103.949586 X= 659,244 NAD83 Y= 614,021 LAT. 32.687401 LONG. 103.950091 WEST SHUGART 2-19 30 STATE NO. 2H WELL X= 622,642 NAD 27 Y= 613,967 LAT. 32.687261 LONG. 103.934706 X= 663,822 NAD83 Y= 614,030 LAT. 32.687380 LONG. 103.935210 ELEVATION +3517' NAVD 88		17 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 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>Bryan Arrant</i> 12/21/2012 Signature _____ Date _____ Bryan Arrant (Agent for Chevron) Printed Name _____ bryan.arrant@chk.com E-mail Address _____	
Project Area Producing Area S 89°53'04"W 4578.23' 350' 1920'		18 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. 12-19-12 Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number #15078	

LEGEND	
	Proposed Well
	Section Line
	Pipeline ROW
	Lease Road

R 30 E

PROPOSED
ARCHAEOLOGICAL AREA
±5.99 Acres

PROPOSED PAD
±2.27 Acres

Proposed Access Road for
West Shugart 2-19-30 State
No. 1H Well

West Shugart
2-19-30 State
No. 2H Well
FSL=1920'
FEL=350'

PROPOSED
ACCESS ROAD
14' X ±279'
±0.10 Acres
±16.89 Rods

Edge of Pipeline ROW

600'

330'

125'

165'

165'

175'

300'

600'

Sec. 1

NOTE:

PLEASE BE ADVISED, THAT WHILE REASONABLE EFFORTS ARE MADE TO LOCATE AND VERIFY PIPELINES AND ANOMALIES USING OUR STANDARD PIPELINE LOCATING EQUIPMENT, IT IS IMPOSSIBLE TO BE 100% EFFECTIVE. AS SUCH, WE ADVISE USING CAUTION WHEN PERFORMING WORK AS THERE IS A POSSIBILITY THAT PIPELINES AND OTHER HAZARDS, SUCH AS FIBER OPTIC CABLES, PVC PIPELINES, ETC. MAY EXIST UNDETECTED ON SITE.

MANY STATES MAINTAIN INFORMATION CENTERS THAT ESTABLISH LINKS BETWEEN THOSE WHO DIG (EXCAVATORS) AND THOSE WHO OWN AND OPERATE UNDERGROUND FACILITIES (OPERATORS). IT IS ADVISABLE AND IN MOST STATES, LAW, FOR THE CONTRACTOR TO CONTACT THE CENTER FOR ASSISTANCE IN LOCATING AND MARKING UNDERGROUND UTILITIES. NEW MEXICO ONE CALL: <http://www.nmonecall.org/>

DISCLAIMER: AT THIS TIME, FENSTERMAKER & ASSOCIATES, INC. HAS NOT PERFORMED NOR WAS ASKED TO PERFORM ANY TYPE OF ENGINEERING, HYDROLOGICAL MODELING, FLOOD PLAIN, OR "NO RISE" CERTIFICATION ANALYSES, INCLUDING BUT NOT LIMITED TO DETERMINING WHETHER THE PROJECT WILL IMPACT FLOOD HAZARDS IN CONNECTION WITH FEDERAL/FEMA, STATE, AND/OR LOCAL LAWS, ORDINANCES AND REGULATIONS. ACCORDINGLY, FENSTERMAKER MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND AS TO THE FOREGOING ISSUES, AND PERSONS OR ENTITIES USING THIS INFORMATION SHALL DO SO AT THEIR OWN RISK.

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

State of New Mexico

Sec. 2

NAD 27 NEW MEXICO EAST ZONE

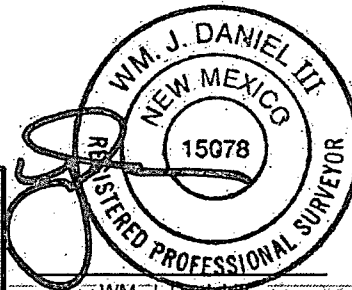


Scale: 1"=200'

200' 0 100' 200'



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



WM. J. Daniel III
Registration No. 15078

CHEVRON U.S.A. INC.

PROPOSED PAD & ACCESS ROAD
WEST SHUGART 2-19-30 STATE NO. 2H WELL
SECTION 2, T19S-R30E
EDDY COUNTY, NEW MEXICO

DRAWN BY: BMO

REVISIONS

PROJ. MGR.: DBM

No.

DATE:

REVISED BY:

DATE: 12/17/2012

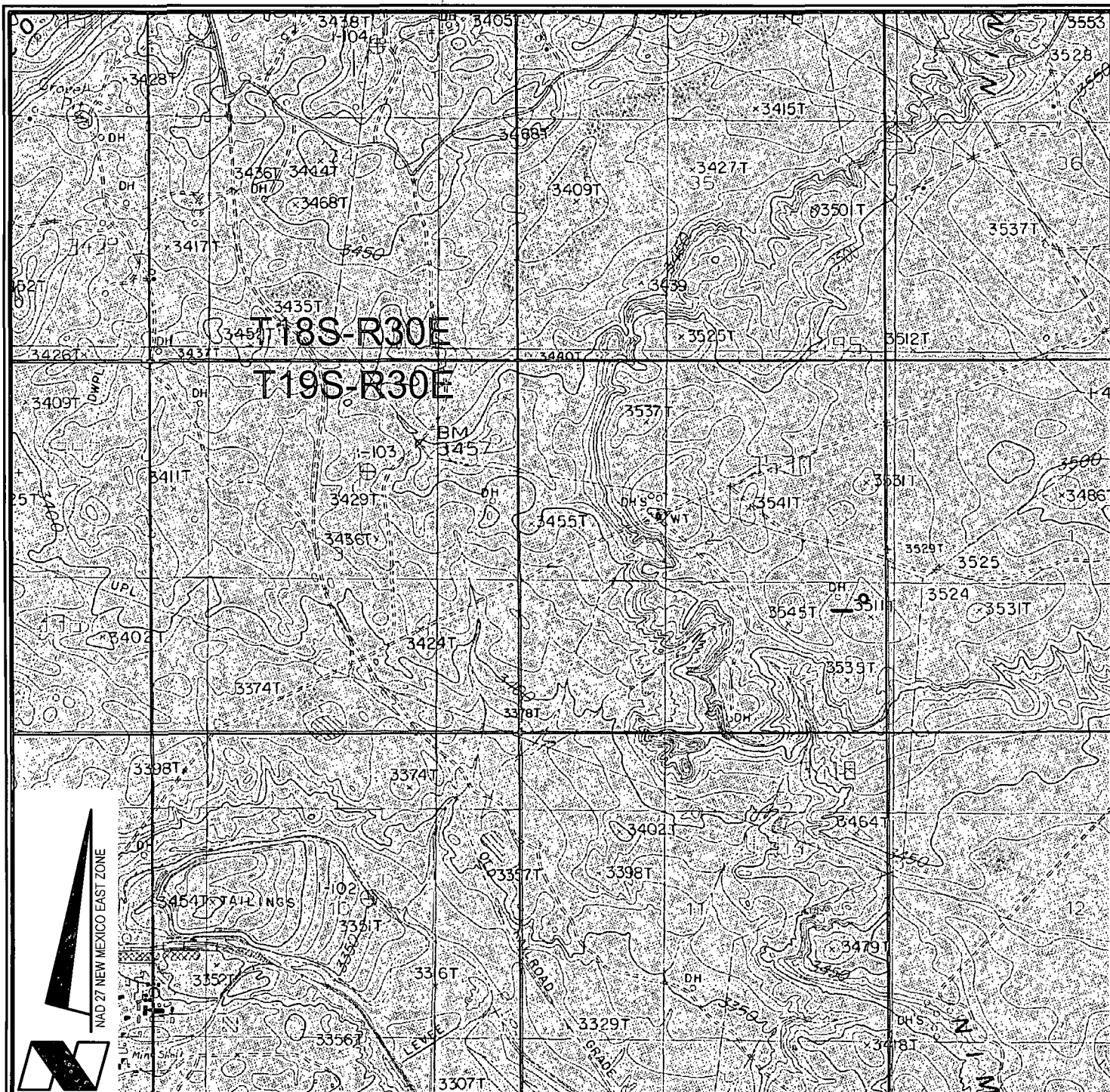
No.

DATE:

REVISED BY:

FILENAME: T:\2012\127766\DWG\WEST SHUGART 2-19-30 STATE 2H REVISED SUP.dwg

NW ARCH. AREA CRN.	
X=	622,342' NAD 27
Y=	614,242
NE ARCH. AREA CRN.	
X=	622,942 NAD 27
Y=	614,242
SE ARCH. AREA CRN:	
X=	622,942 NAD 27
Y=	613,642
SW ARCH. AREA CRN:	
X=	622,342 NAD 27
Y=	613,642
NW PAD CRN:	
X=	622,477 NAD 27
Y=	614,092
ELEVATION +3523' NAVD 88	
NE PAD CRN.	
X=	622,807 NAD 27
Y=	614,092
ELEVATION +3524' NAVD 88	
SE PAD CRN.	
X=	622,807 NAD 27
Y=	613,792
ELEVATION +3515' NAVD 88	
SW PAD CRN.	
X=	622,477 NAD 27
Y=	613,792
ELEVATION +3518' NAVD 88	
WEST SHUGART 2-19-30 STATE NO. 2H WELL	
X=	622,642 NAD 27
Y=	613,967
LAT.	32.687261
LONG.	103.934706
X=	663,822 NAD83
Y=	614,030
LAT.	32.687380
LONG.	103.935210
ELEVATION +3517' NAVD 88	



VICINITY MAP

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

CHEVRON U.S.A. INC.

WEST SHUGART 2-19-30 STATE NO. 2H WELL

LOCATED 1920' FSL AND 350' FEL

SECTION 2, T19S-R30E

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

REVISED: 12/17/2012 BMO

DATE: 11/09/2012

PROJ. MGR.: DBM

SHEET 1 OF 3 SHEETS

FILENAME: T:\2012\12127766\DWG\CUI_West Shugart 2-19-30 State 2H APD.dwg

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T18S

T18S
T19S

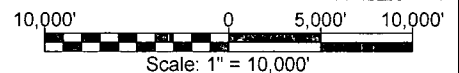
R29E
R30E

R30E
R31E

T19S
T20S



VICINITY MAP



CHEVRON U.S.A. INC.

WEST SHUGART 2-19-30 STATE NO. 2H WELL

LOCATED 1920' FSL AND 350' FEL

SECTION 2, T19S-R30E

EDDY COUNTY, NEW MEXICO



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DRAWN BY: BMO

PROJ. MGR.: DBM

REVISED: 12/17/2012 BMO

DATE: 11/09/2012

SHEET 2 OF 3 SHEETS

FILENAME: T:\2012\2127766\DWG\CUI_West Shugart 2-19-30 State 2H APD.dwg

Permian District

NM - Bone Spring Sand Project

West Shugart 2-19-30 State 2H

Well #1

Wellbore #1

Plan: Plat 19Dec12

Standard Planning Report

08 January, 2013

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site West Shugart 2-19-30 State 2H
Company:	Permian District	TVD Reference:	RKB @ 3534' 0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3534' 0usft
Site:	West Shugart 2-19-30 State 2H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 19Dec12		

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	West Shugart 2-19-30 State 2H		
Site Position:	Northing:	613,967.00 ft	Latitude: 32° 41' 14.12740836 N
From: Map	Easting:	622,642.00 ft	Longitude: 103° 56' 4.95855397 W
Position Uncertainty: 0.0 usft	Slot Radius: 13.200 in	Grid Convergence: 0.22 °	

Well	Well #1		
Well Position	+N/-S 0.0 usft	Northing: 613,967.00 ft	Latitude: 32° 41' 14.12740836 N
	+E/-W 0.0 usft	Easting: 622,642.00 ft	Longitude: 103° 56' 4.95855397 W
Position Uncertainty 0.0 usft	Wellhead Elevation: 3,517.0 usft	Ground Level: 3,517.0 usft	

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	11/16/2012	7.61
			Dip Angle (°)
			60.52
			Field Strength (nT)
			48,712

Design	Plat 19Dec12		
Audit Notes:			
Version:	Phase: PLAN	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			269.89

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	
8,135.8	0.00	0.00	8,135.8	0.0	0.0	0.00	0.00	0.00	0.00	
8,887.5	90.20	269.89	8,613.3	-0.9	-479.1	12.00	12.00	0.00	269.89	
12,986.4	90.20	269.89	8,599.0	-9.0	-4,578.0	0.00	0.00	0.00	0.00	West Shugart 2-19-

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site West Shugart 2-19-30 State 2H
Company:	Permian District	TVD Reference:	RKB @ 3534.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3534.0usft
Site:	West Shugart 2-19-30 State 2H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 19Dec12		

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	
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1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
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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 West Shugart 2-19-30 State 2H
Company:	Permian District	TVD Reference:	RKB @ 3534 0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3534 0usft
Site:	West Shugart 2-19-30 State 2H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 19Dec12		

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
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,135.8	0.00	0.00	8,135.8	0.0	0.0	0.0	0.00	0.00	0.00
8,150.0	1.70	269.89	8,150.0	0.0	-0.2	0.2	12.00	12.00	0.00
8,175.0	4.70	269.89	8,175.0	0.0	-1.6	1.6	12.00	12.00	0.00
8,200.0	7.70	269.89	8,199.8	0.0	-4.3	4.3	12.00	12.00	0.00
8,225.0	10.70	269.89	8,224.5	0.0	-8.3	8.3	12.00	12.00	0.00
8,250.0	13.70	269.89	8,248.9	0.0	-13.6	13.6	12.00	12.00	0.00
8,275.0	16.70	269.89	8,273.0	0.0	-20.1	20.1	12.00	12.00	0.00
8,300.0	19.70	269.89	8,296.8	-0.1	-27.9	27.9	12.00	12.00	0.00
8,325.0	22.70	269.89	8,320.1	-0.1	-37.0	37.0	12.00	12.00	0.00
8,350.0	25.70	269.89	8,342.9	-0.1	-47.2	47.2	12.00	12.00	0.00
8,375.0	28.70	269.89	8,365.1	-0.1	-58.7	58.7	12.00	12.00	0.00
8,400.0	31.70	269.89	8,386.7	-0.1	-71.2	71.2	12.00	12.00	0.00
8,425.0	34.70	269.89	8,407.6	-0.2	-84.9	84.9	12.00	12.00	0.00
8,450.0	37.70	269.89	8,427.8	-0.2	-99.7	99.7	12.00	12.00	0.00
8,475.0	40.70	269.89	8,447.2	-0.2	-115.5	115.5	12.00	12.00	0.00
8,500.0	43.70	269.89	8,465.7	-0.3	-132.3	132.3	12.00	12.00	0.00
8,525.0	46.70	269.89	8,483.3	-0.3	-150.0	150.0	12.00	12.00	0.00
8,550.0	49.70	269.89	8,500.0	-0.3	-168.6	168.6	12.00	12.00	0.00
8,575.0	52.70	269.89	8,515.6	-0.4	-188.1	188.1	12.00	12.00	0.00
8,600.0	55.70	269.89	8,530.3	-0.4	-208.4	208.4	12.00	12.00	0.00
8,625.0	58.70	269.89	8,543.8	-0.5	-229.4	229.4	12.00	12.00	0.00
8,650.0	61.70	269.89	8,556.2	-0.5	-251.1	251.1	12.00	12.00	0.00
8,675.0	64.70	269.89	8,567.5	-0.5	-273.4	273.4	12.00	12.00	0.00
8,700.0	67.70	269.89	8,577.6	-0.6	-296.3	296.3	12.00	12.00	0.00
8,725.0	70.70	269.89	8,586.5	-0.6	-319.6	319.6	12.00	12.00	0.00
8,750.0	73.70	269.89	8,594.1	-0.7	-343.4	343.4	12.00	12.00	0.00

Chesapeake Operating Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site West Shugart 2-19-30 State 2H
Company:	Permian District	TVD Reference:	RKB @ 3534.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3534.0usft
Site:	West Shugart 2-19-30 State 2H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 19Dec12		

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)
8,775.0	76.70	269.89	8,600.5	-0.7	-367.6	367.6	12.00	12.00	0.00
8,800.0	79.70	269.89	8,605.6	-0.8	-392.1	392.1	12.00	12.00	0.00
8,825.0	82.70	269.89	8,609.4	-0.8	-416.8	416.8	12.00	12.00	0.00
8,850.0	85.70	269.89	8,612.0	-0.9	-441.7	441.7	12.00	12.00	0.00
8,875.0	88.70	269.89	8,613.2	-0.9	-466.6	466.6	12.00	12.00	0.00
8,887.5	90.20	269.89	8,613.3	-0.9	-479.1	479.1	12.00	12.00	0.00
8,900.0	90.20	269.89	8,613.3	-1.0	-491.6	491.6	0.00	0.00	0.00
9,000.0	90.20	269.89	8,612.9	-1.2	-591.6	591.6	0.00	0.00	0.00
9,100.0	90.20	269.89	8,612.6	-1.4	-691.6	691.6	0.00	0.00	0.00
9,200.0	90.20	269.89	8,612.2	-1.6	-791.6	791.6	0.00	0.00	0.00
9,300.0	90.20	269.89	8,611.9	-1.8	-891.6	891.6	0.00	0.00	0.00
9,400.0	90.20	269.89	8,611.5	-1.9	-991.6	991.6	0.00	0.00	0.00
9,500.0	90.20	269.89	8,611.2	-2.1	-1,091.6	1,091.6	0.00	0.00	0.00
9,600.0	90.20	269.89	8,610.8	-2.3	-1,191.6	1,191.6	0.00	0.00	0.00
9,700.0	90.20	269.89	8,610.5	-2.5	-1,291.6	1,291.6	0.00	0.00	0.00
9,800.0	90.20	269.89	8,610.1	-2.7	-1,391.6	1,391.6	0.00	0.00	0.00
9,900.0	90.20	269.89	8,609.8	-2.9	-1,491.6	1,491.6	0.00	0.00	0.00
10,000.0	90.20	269.89	8,609.4	-3.1	-1,591.6	1,591.6	0.00	0.00	0.00
10,100.0	90.20	269.89	8,609.1	-3.3	-1,691.6	1,691.6	0.00	0.00	0.00
10,200.0	90.20	269.89	8,608.7	-3.5	-1,791.6	1,791.6	0.00	0.00	0.00
10,300.0	90.20	269.89	8,608.4	-3.7	-1,891.6	1,891.6	0.00	0.00	0.00
10,400.0	90.20	269.89	8,608.0	-3.9	-1,991.6	1,991.6	0.00	0.00	0.00
10,500.0	90.20	269.89	8,607.7	-4.1	-2,091.6	2,091.6	0.00	0.00	0.00
10,600.0	90.20	269.89	8,607.3	-4.3	-2,191.6	2,191.6	0.00	0.00	0.00
10,700.0	90.20	269.89	8,607.0	-4.5	-2,291.6	2,291.6	0.00	0.00	0.00
10,800.0	90.20	269.89	8,606.6	-4.7	-2,391.6	2,391.6	0.00	0.00	0.00
10,900.0	90.20	269.89	8,606.3	-4.9	-2,491.6	2,491.6	0.00	0.00	0.00
11,000.0	90.20	269.89	8,605.9	-5.1	-2,591.6	2,591.6	0.00	0.00	0.00
11,100.0	90.20	269.89	8,605.6	-5.3	-2,691.6	2,691.6	0.00	0.00	0.00
11,200.0	90.20	269.89	8,605.2	-5.5	-2,791.6	2,791.6	0.00	0.00	0.00
11,300.0	90.20	269.89	8,604.9	-5.7	-2,891.6	2,891.6	0.00	0.00	0.00
11,400.0	90.20	269.89	8,604.5	-5.9	-2,991.6	2,991.6	0.00	0.00	0.00
11,500.0	90.20	269.89	8,604.2	-6.1	-3,091.6	3,091.6	0.00	0.00	0.00
11,600.0	90.20	269.89	8,603.8	-6.3	-3,191.6	3,191.6	0.00	0.00	0.00
11,700.0	90.20	269.89	8,603.5	-6.5	-3,291.6	3,291.6	0.00	0.00	0.00
11,800.0	90.20	269.89	8,603.1	-6.7	-3,391.6	3,391.6	0.00	0.00	0.00
11,900.0	90.20	269.89	8,602.8	-6.9	-3,491.6	3,491.6	0.00	0.00	0.00
12,000.0	90.20	269.89	8,602.4	-7.1	-3,591.6	3,591.6	0.00	0.00	0.00
12,100.0	90.20	269.89	8,602.1	-7.3	-3,691.6	3,691.6	0.00	0.00	0.00
12,200.0	90.20	269.89	8,601.7	-7.5	-3,791.6	3,791.6	0.00	0.00	0.00
12,300.0	90.20	269.89	8,601.4	-7.7	-3,891.6	3,891.6	0.00	0.00	0.00
12,400.0	90.20	269.89	8,601.0	-7.8	-3,991.6	3,991.6	0.00	0.00	0.00
12,500.0	90.20	269.89	8,600.7	-8.0	-4,091.6	4,091.6	0.00	0.00	0.00
12,600.0	90.20	269.89	8,600.3	-8.2	-4,191.6	4,191.6	0.00	0.00	0.00
12,700.0	90.20	269.89	8,600.0	-8.4	-4,291.6	4,291.6	0.00	0.00	0.00
12,800.0	90.20	269.89	8,599.7	-8.6	-4,391.6	4,391.6	0.00	0.00	0.00
12,900.0	90.20	269.89	8,599.3	-8.8	-4,491.6	4,491.6	0.00	0.00	0.00
12,986.4	90.20	269.89	8,599.0	-9.0	-4,578.0	4,578.0	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site West Shugart 2-19-30 State 2H
Company:	Permian District	TVD Reference:	RKB @ 3534.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3534.0usft
Site:	West Shugart 2-19-30 State 2H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 19Dec12		

Design Targets									
Target Name:	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(ft)	(ft)		
- Shape									
West Shugart 2-19-3C	0.00	0.00	0.0	0.0	0.0	613,967.00	622,642.00	41° 14.12740836 N	56° 4.95855397 W
- plan hits target center									
- Point									
West Shugart 2-19-3C	0.00	0.00	8,599.0	-9.0	-4,578.0	613,958.00	618,064.00	41° 14.20538556 N	56° 58.52576859 W
- plan hits target center									
- Point									

Project: NM - Bone Spring Sand Project

Site: West Shugart 2-19-30 State 2H

Well: Well #1

Wellbore: Wellbore #1

Design: Plat 19Dec12

PROJECT DETAILS: NM - Bone Spring Sand Project

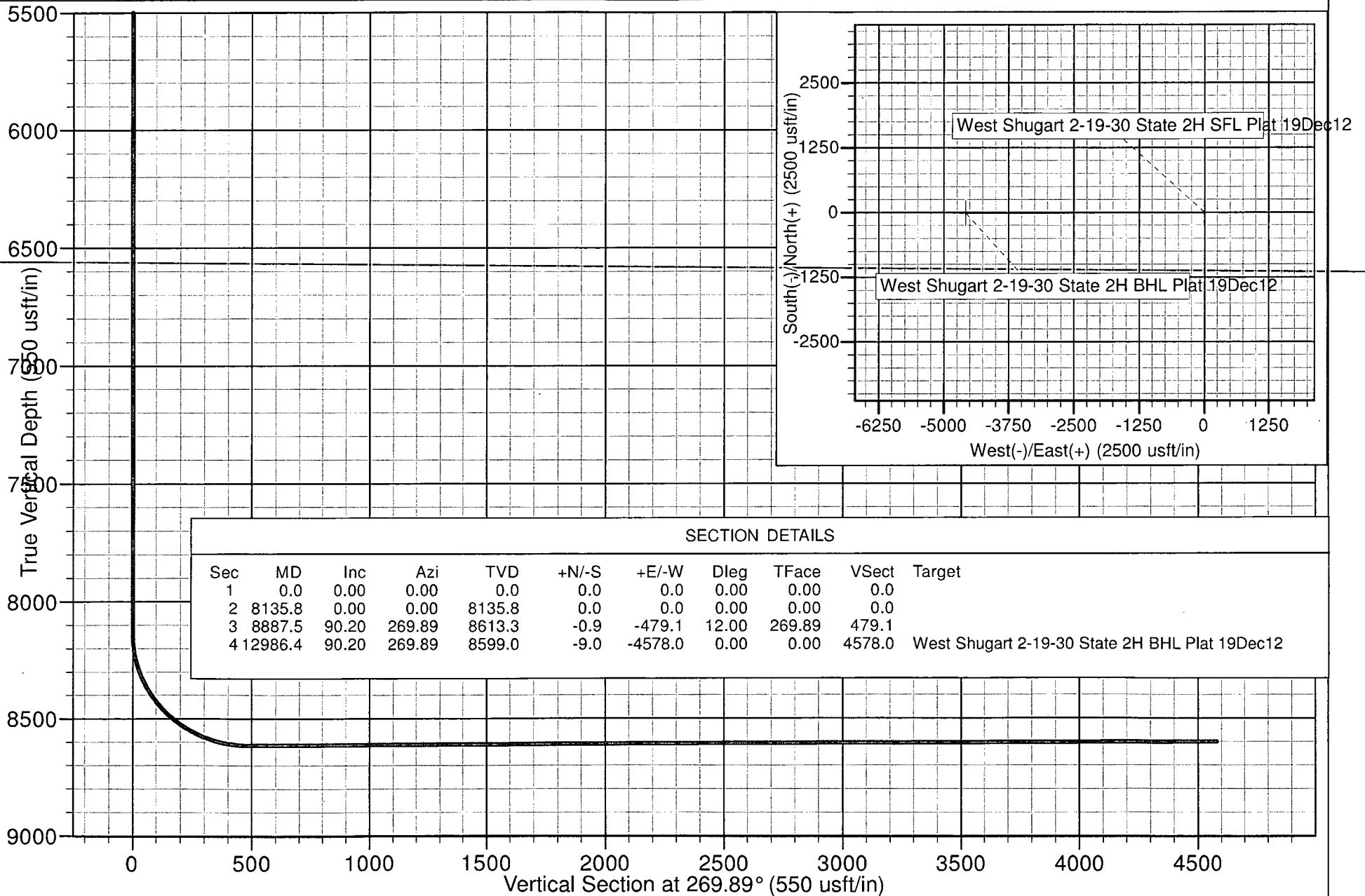
Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: New Mexico East 3001

System Datum: Mean Sea Level



GEOLOGICAL PROGNOSIS

Chesapeake Operating, Inc. – Permian Nm Chevron District - Cvx-Ne Eddy Prospect
Corey Dimond - Geologist

GPlat ID: 43960

API NUMBER: Unassigned **PROPERTY NUMBER:** 647219
PERMIT NUMBER: Unassigned
WELL NAME: WEST SHUGART 2-19-30 STATE 2H (CVX)
WELLBORE: Horizontal
WELL CLASS: Development
WELL TYPE: Oil
COI OPERATED? True
PAD TYPE: Single Well
 Pad Name: WEST SHUGART 2 STATE 2H Pad
 Pad Prop. No.: 902815
 Pad Description:
 Is Pad Surveyed? No
PILOT/CONSERVATION? No
PROSPECT: Cvx-Ne Eddy
HOLE TYPE: Single Lateral
SPUDDER RIG REQUIRED: No
LOCATION SYSTEM: Jeffersonian
SURFACE LOCATION: Section 2-19S-30E, Eddy County, New Mexico
 1,920' FSL & 200' FEL Section Line
 Latitude/Longitude Source: Plat
 Latitude: 32.687261° (NAD27)
 Longitude: -103.934706° (NAD27)
BOTTOM HOLE LOCATION: Section 2-19S-30E, Eddy County, New Mexico
 1,920' FSL & 350' FWL
 Latitude: 32.687282° (NAD27)
 Longitude: -103.949586° (NAD27)
EST. ELEVATIONS: GL 3,517' KB 3,534'
 Primary Objective: Bone Spring Sand
 Formation Name at TD: Bone Spring Sand
 Projected TVD: 8,600'
DRILLING CONTRACTOR: TRINIDAD 110

1/8/2013 12:56:44 PM

Project: NM - Bone Spring Sand Project
 Site: West Shugart 2-19-30 State 2H
 Well: Well #1
 Wellbore: Wellbore #1
 Design: Plat 19Dec12

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

