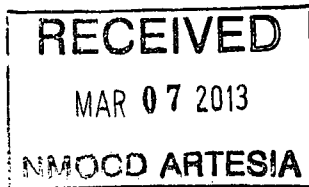


District I
1625 R. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised November 14, 2012



Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ 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
³ Property Code 39763	⁴ Property Name MALAGA 36 23 28 ST	⁵ API Number 30-015-41184 ⁶ Well No. 1H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
C	36	23 S	28 E		163'	N	2241'	W	EDDY

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	36	23 S	28 E		330'	S	2241'	W	EDDY

9. Pool Information

⁹ Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH	¹⁰ Pool Code 15011 15013
---	--

Additional Well Information

¹¹ Work Type N	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 2994'
¹⁶ Multiple N	¹⁷ Proposed Depth 11719	¹⁸ Formation Bone Spring	¹⁹ Contractor TBD	²⁰ Spud Date
Depth to Ground water 25'-210'		Distance from nearest fresh water well < 1 MILE		Distance to nearest surface water < 1 MILE

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#	750'	1068	0'
Intermediate	11"	8 5/8"	32#	2600'	1119	0'
Production	7 7/8"	5 1/2"	17#	11719'	1814	2100'

Casing/Cement Program: Additional Comments

DETAILED INFORMATION IS ATTACHED.

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: Printed name: Bryan Arrant-Agent for Chevron USA, Inc. Title: Regulatory Specialist II E-mail Address: bryan.arrant@chk.com Date: 03/05/2013	OIL CONSERVATION DIVISION	
	Approved By:	
	Title:	
	Approved Date: 3/7/2013	Expiration Date: 3/7/2015
	Conditions of Approval Attached	

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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 30-015-41184		2 Pool Code 45013-15011		3 Pool Name CULEBRA BLUFF, BONE SPRING, SOUTH	
4 Property Code 39763		5 Property Name MALAGA 36 23.28 ST			6 Well Number 1H
7 OGRID No. 4323		8 Operator Name CHEVRON U.S.A. INC.			9 Elevation 2994'

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	36	23 SOUTH	28 EAST, N.M.P.M.		163'	NORTH	2241'	WEST	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
N	36	23 SOUTH	28 EAST, N.M.P.M.		330'	SOUTH	2241'	WEST	EDDY

10 Dedicated Acres 160	11 Joint or Infill	12 Consolidation Code	13 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.

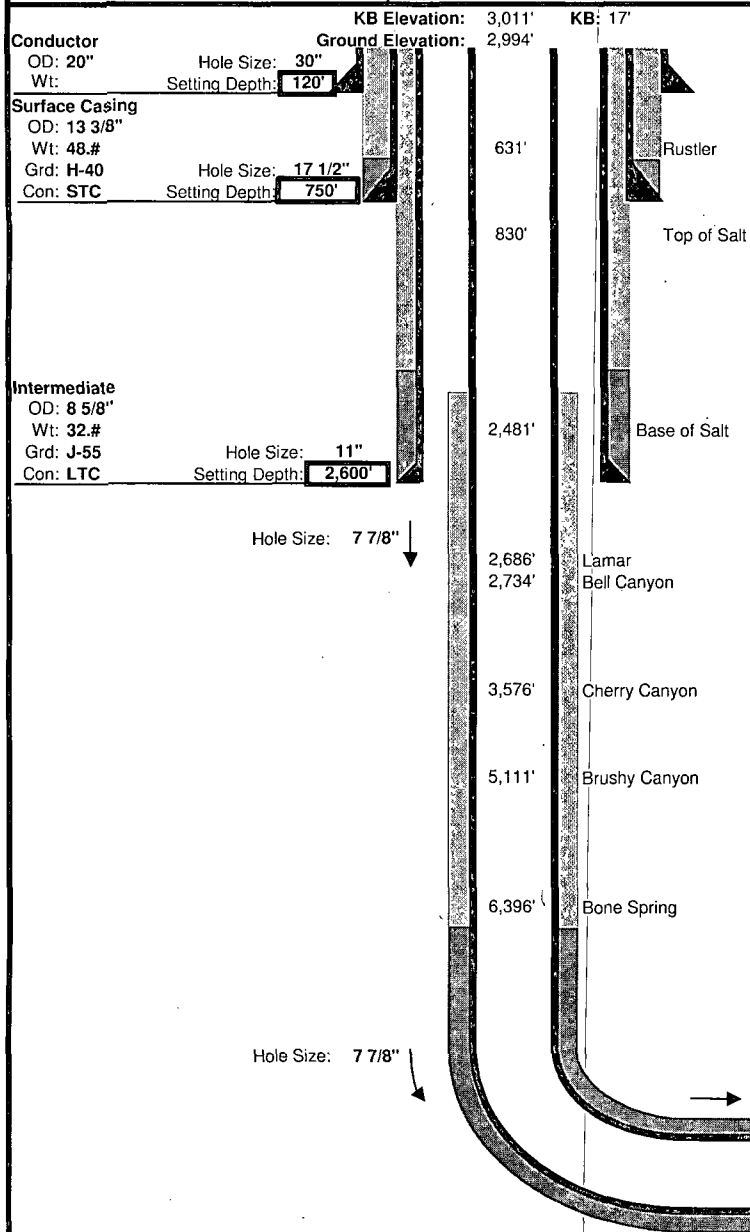
	MALAGA 36 23.28 ST. NO. 1H WELL X= 590.195 NAD 27 Y= 461.464 LAT. 32.268343 LONG. 104.041524 X= 631.378 NAD 83 Y= 461.523 LAT. 32.268465 LONG. 104.042016 ELEVATION +2932' NAVD 83	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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>[Signature]</i> 03/05/2013 Signature Date Bryan Arrant (Agent for Chevron) Printed Name bryan.arrant@chevron.com E-mail Address
	PROPOSED BOTTOM HOLE LOCATION X= 590.147 NAD 27 Y= 456.640 LAT. 32.255084 LONG. 104.041721 X= 631.331 NAD 83 Y= 456.699 LAT. 32.255206 LONG. 104.042213	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. FEB 15 2013 Date of Survey <i>[Signature]</i> Signature and Seal J. DANIEL III REGISTERED PROFESSIONAL SURVEYOR 15078 Certificate Number #15078



Drilling Engineer: Dan Melcher
Superintendent: Daniel Gipson
Geologist: Corey Dimond

Well Name: Malaga 36-23-28 ST 1H
Target: Lower Avalon
County, State: Eddy, NM
Surface Location: 163' FNL 2241' FWL, Section 36, Township 23 S, Range 28 E
BH Location: 330' FSL 2241' FWL, Section 36, Township 23 S, Range 28 E
SHL Latitude: 32.268343 SHL North: 461464
SHL Longitude: -104.041524 SHL East: 590195
BHL Latitude: 32.255084 BHL North: 456640
BHL Longitude: -104.041721 BHL East: 590147
Coordinates: NAD 27 Coordinates: NMSPCE

Drilling Rig: Trinidad 110
Directional: Phoenix
Drilling Mud: Nova
Cement: Schlumberger
Wellhead: Sunbelt
Property Number: 0
AFE Number: 0



Wellhead Equipment	
A Section	13-3/8" x 13-5/8" 5K SOW
B Section	13-5/8" 5K x 11" 5K
C Section	11" 5K X 7-1/16" 10K w/10k gate valve
D Section	N/A
Required BOP Stack	13-5/8" 5K- Double, Annular, Rot Head w/orbit valve

Mud				
Depth	Type	Weight	F. Vis	FL
0' - 750'	Spud Mud	8.4 - 8.7	32 - 34	NC - NC
750' - 2,600'	Brine	9.5 - 10.1	28 - 29	NC - NC
2,600' - 6,622'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC
6,622' - 7,372'	Cut Brine	8.3 - 9.5	32 - 36	15 - 25
7,372' - 11,719'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC

Cement						
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl
Surface						
Lead	0'	650'	13.7	1.65	250	251
Tail	650'	750'	14.8	1.33	250	50
Intermediate						
Lead	0'	2,100'	12.0	1.99	250	278
Tail	2,100'	2,600'	14.2	1.37	250	82
Production						
Lead	2,100'	6,622'	12.4	2.19	75	233
Tail	6,622'	11,719'	14.5	1.28	75	277

Production Casing
OD: 5 1/2"
Wt: 17.5#
Grd: P-110
Con: LTC

Directional Plan						
Target Line:	7,100' @ 0' VS w/ 90.0 deg inclination					
Target Window:	20' above, 20' below, 50' left, 50' right					
	MD	INC	AZM	TVD	VS	DLS
KOP	6,622'	0.00	0.00	6,622'	0'	0.00
EOB	7,372'	90.00	180.57	7,100'	477'	12.00
TD	11,719'	90.00	180.57	7,100'	4,824'	0.00
Hardlines:	Lateral- 330' from parallel lease lines.					
	Vertical- Actual Lease Lines					
Notes:	Please note SHL and BHL distance from lease lines					

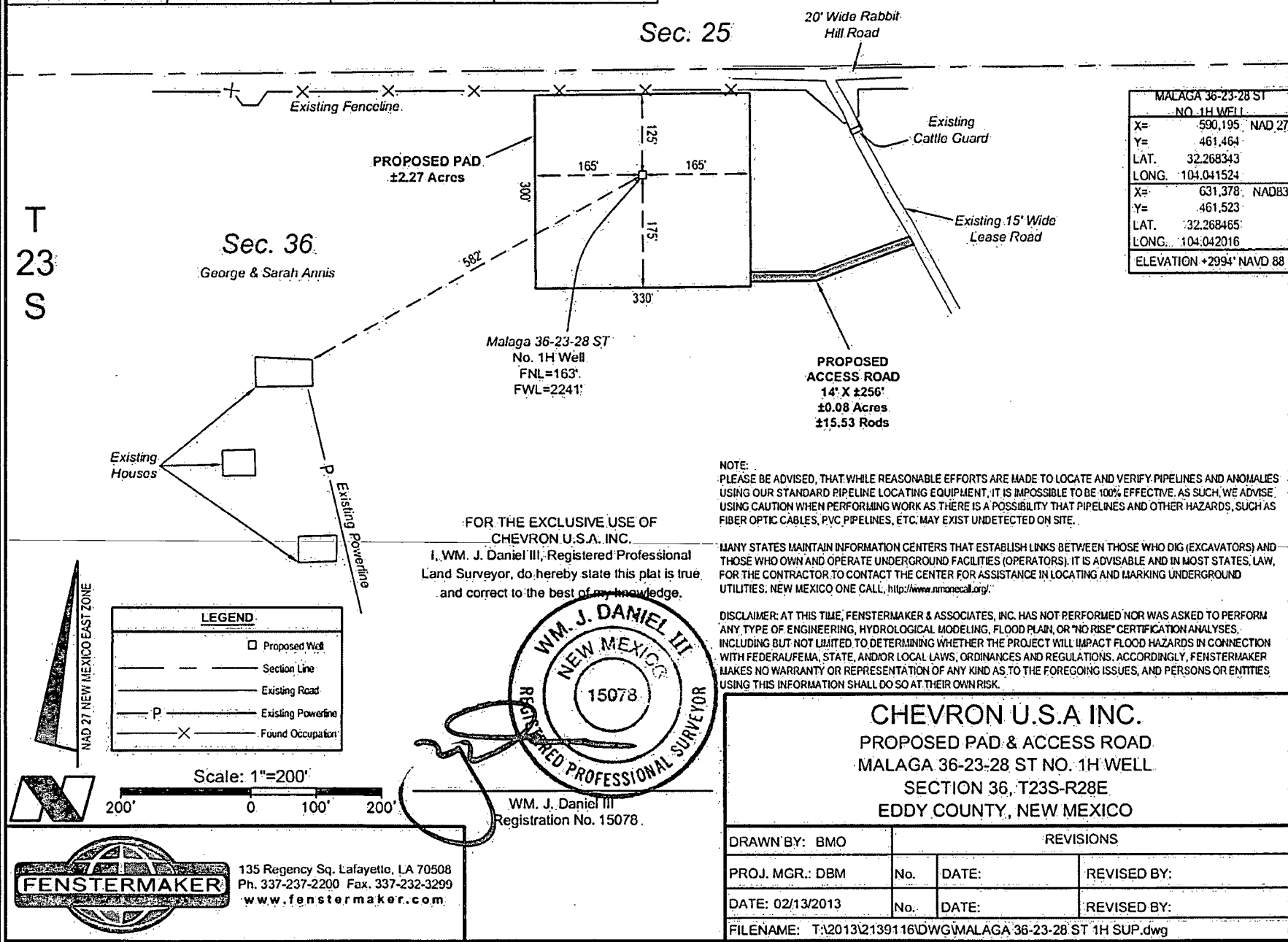
Type	Logs	Interval	Vendor
OH	Triple Combo	Base of Curve to Int Csg	TBD
Mud Log	2 man mudlogging	Int Csg to EOC	Nomac
LWD	MWD Gamma	Curve and Lateral	Phoenix

MALAGA 36 23 28 ST 1H

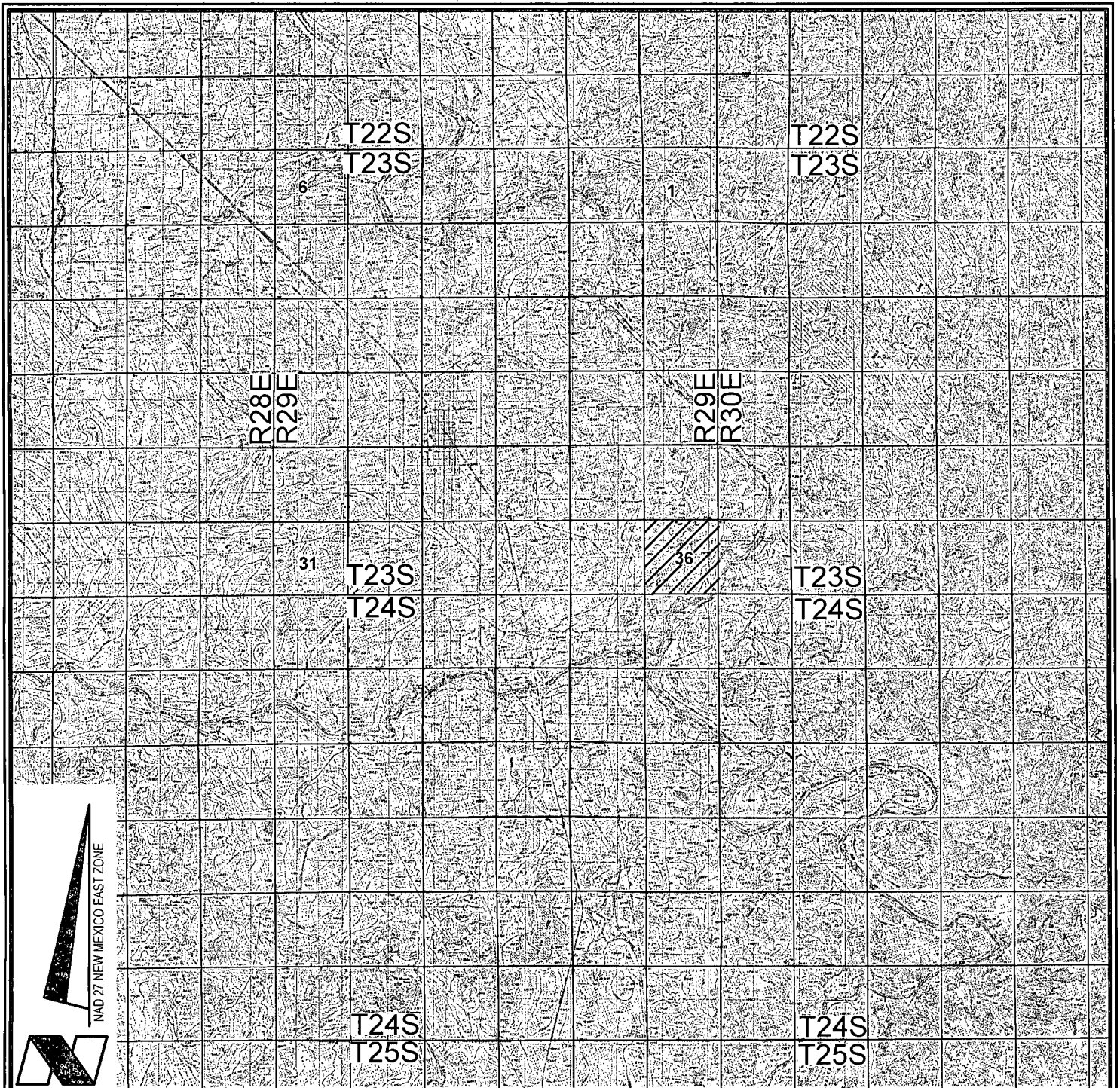
NMOCD's forms C-102, C-144(CLEZ) pit permit, casing program, directional planning report, depth to ground water report, and other information is enclosed. There are no known high levels of H₂S in this area. However, monitoring of H₂S and well readiness will be utilized in the drilling of this well. Surface hole will be drilled with fresh water mud, intermediate-brine and production hole with cut-brine.

NW PAD CRN.	NE PAD CRN.	SE PAD CRN.	SW PAD CRN.
X= 590,029 NAD 27 Y= 461,588 ELEVATION +2992' NAVD 88	X= 590,359 NAD 27 Y= 461,590 ELEVATION +2994' NAVD 88	X= 590,361 NAD 27 Y= 461,290 ELEVATION +2994' NAVD 88	X= 590,031 NAD 27 Y= 461,288 ELEVATION +2995' NAVD 88

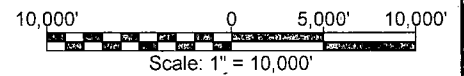
R 28 E



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VICINITY MAP



CHEVRON U.S.A. INC.
 MALAGA 36-23-28 ST NO. 1H WELL
 LOCATED 163' FNL AND 2241' FWL
 SECTION 36, T23S-R28E
 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

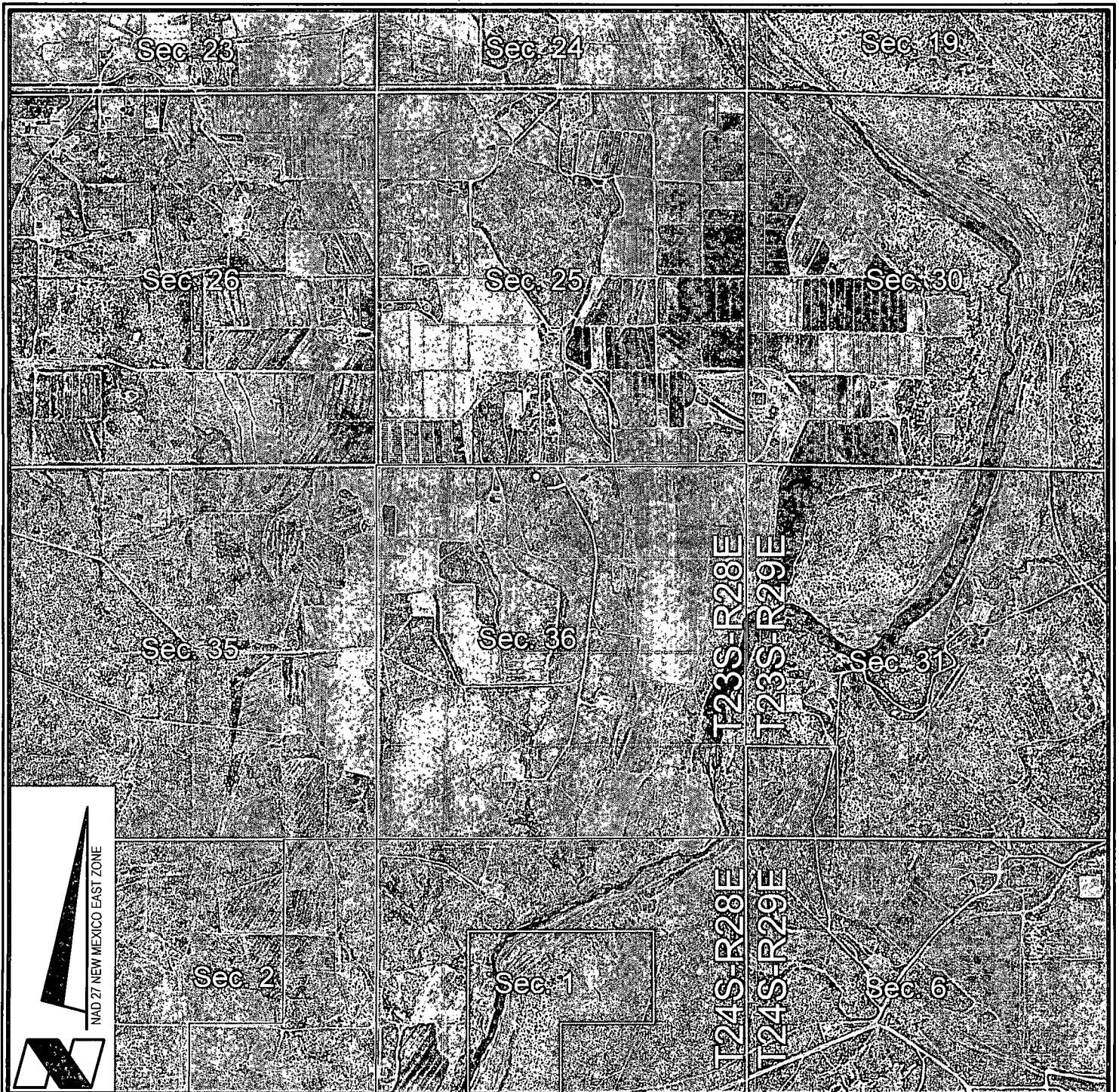
REVISED:

DATE: 02/13/2013

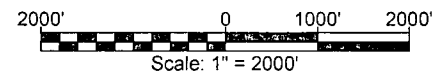
PROJ. MGR.: DBM

SHEET 2 OF 3 SHEETS

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VICINITY MAP



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

CHEVRON U.S.A. INC.
MALAGA 36-23-28 ST NO. 1H WELL
LOCATED 163' FNL AND 2241' FWL
SECTION 36, T23S-R28E
EDDY COUNTY, NEW MEXICO



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DRAWN BY: BMO

REVISED:

DATE: 02/13/2013.

PROJ. MGR.: DBM

SHEET 3 OF 3 SHEETS

FILENAME: T:\2013\2139116\DWG\MALAGA 36-23-28 ST 1H APD.dwg

Permian District

NM -Eddy [Non-PLU Avalon Project]

Malaga 36-23-28 ST 1H

Well #1

Wellbore #1

Plan: Plat 15Feb13

Standard Planning Report

19 February, 2013

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Malaga 36-23-28 ST.1H
Company:	Permian District	TVD Reference:	RKB @ 3011.0usft
Project:	NM -Eddy [Non-PLU Avalon Project]	MD Reference:	RKB @ 3011.0usft
Site:	Malaga 36-23-28 ST.1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 15Feb13		

Project:	NM -Eddy [Non-PLU Avalon Project]		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Malaga 36-23-28 ST.1H		
Site Position:		Northing:	461,464.00 ft
From:	Map	Easting:	590,195.00 ft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	32° 16' 6.73623230 N
		Longitude:	104° 10' 30.94998149 W
		Grid Convergence:	0.08 °

Well	Well #1				
Well Position	+N/-S	0.0 usft	Northing:	461,464.00 ft	Latitude: 32° 16' 6.73623230 N
	+E/-W	0.0 usft	Easting:	590,195.00 ft	Longitude: 104° 10' 30.94998149 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	2,994.0 usft	Ground Level:	2,994.0 usft

Wellbore	Wellbore #1
-----------------	-------------

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/19/2013	7.66	60.08	48,389

Design	Plat 15Feb13
---------------	--------------

Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	180.57

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	
6,622.5	0.00	0.00	6,622.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,372.5	90.00	180.57	7,100.0	-477.4	-4.8	12.00	12.00	0.00	180.57	
11,719.3	90.00	180.57	7,100.0	-4,824.0	-48.0	0.00	0.00	0.00	0.00	0.00 Malaga 36-23-28 S

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Malaga 36-23-28 ST. 1H
Company:	Permian District	TVD Reference:	RKB @ 3011'0usft
Project:	NM-Eddy (Non-PLU Avalon Project)	MD Reference:	RKB @ 3011'0usft
Site:	Malaga 36-23-28 ST. 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 15Feb13		

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 Malaga 36-23-28 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3011.0usft
Project:	NM -Eddy (Non-PLU Avalon Project)	MD Reference:	RKB @ 3011.0usft
Site:	Malaga 36-23-28 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 15Feb13		

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	
6,622.5	0.00	0.00	6,622.5	0.0	0.0	0.0	0.00	0.00	0.00	
6,625.0	0.30	180.57	6,625.0	0.0	0.0	0.0	12.00	12.00	0.00	
6,650.0	3.30	180.57	6,650.0	-0.8	0.0	0.8	12.00	12.00	0.00	
6,675.0	6.30	180.57	6,674.9	-2.9	0.0	2.9	12.00	12.00	0.00	
6,700.0	9.30	180.57	6,699.7	-6.3	-0.1	6.3	12.00	12.00	0.00	
6,725.0	12.30	180.57	6,724.2	-11.0	-0.1	11.0	12.00	12.00	0.00	
6,750.0	15.30	180.57	6,748.5	-16.9	-0.2	16.9	12.00	12.00	0.00	
6,775.0	18.30	180.57	6,772.4	-24.1	-0.2	24.1	12.00	12.00	0.00	
6,800.0	21.30	180.57	6,795.9	-32.6	-0.3	32.6	12.00	12.00	0.00	
6,825.0	24.30	180.57	6,819.0	-42.3	-0.4	42.3	12.00	12.00	0.00	
6,850.0	27.30	180.57	6,841.5	-53.2	-0.5	53.2	12.00	12.00	0.00	
6,875.0	30.30	180.57	6,863.4	-65.2	-0.6	65.2	12.00	12.00	0.00	
6,900.0	33.30	180.57	6,884.6	-78.4	-0.8	78.4	12.00	12.00	0.00	
6,925.0	36.30	180.57	6,905.2	-92.6	-0.9	92.6	12.00	12.00	0.00	
6,950.0	39.30	180.57	6,924.9	-108.0	-1.1	108.0	12.00	12.00	0.00	
6,975.0	42.30	180.57	6,943.8	-124.3	-1.2	124.3	12.00	12.00	0.00	
7,000.0	45.30	180.57	6,961.9	-141.6	-1.4	141.6	12.00	12.00	0.00	
7,025.0	48.30	180.57	6,979.0	-159.8	-1.6	159.8	12.00	12.00	0.00	
7,050.0	51.30	180.57	6,995.1	-178.9	-1.8	178.9	12.00	12.00	0.00	
7,075.0	54.30	180.57	7,010.3	-198.8	-2.0	198.8	12.00	12.00	0.00	
7,100.0	57.30	180.57	7,024.3	-219.5	-2.2	219.5	12.00	12.00	0.00	
7,125.0	60.30	180.57	7,037.3	-240.9	-2.4	240.9	12.00	12.00	0.00	
7,150.0	63.30	180.57	7,049.1	-262.9	-2.6	262.9	12.00	12.00	0.00	
7,175.0	66.30	180.57	7,059.7	-285.5	-2.8	285.5	12.00	12.00	0.00	
7,200.0	69.30	180.57	7,069.2	-308.6	-3.1	308.7	12.00	12.00	0.00	
7,225.0	72.30	180.57	7,077.4	-332.2	-3.3	332.3	12.00	12.00	0.00	
7,250.0	75.30	180.57	7,084.4	-356.3	-3.5	356.3	12.00	12.00	0.00	
7,275.0	78.30	180.57	7,090.1	-380.6	-3.8	380.6	12.00	12.00	0.00	
7,300.0	81.30	180.57	7,094.5	-405.2	-4.0	405.2	12.00	12.00	0.00	
7,325.0	84.30	180.57	7,097.6	-430.0	-4.3	430.0	12.00	12.00	0.00	
7,350.0	87.30	180.57	7,099.5	-454.9	-4.5	454.9	12.00	12.00	0.00	
7,372.5	90.00	180.57	7,100.0	-477.4	-4.8	477.5	12.00	12.00	0.00	
7,400.0	90.00	180.57	7,100.0	-504.9	-5.0	504.9	0.00	0.00	0.00	
7,500.0	90.00	180.57	7,100.0	-604.9	-6.0	604.9	0.00	0.00	0.00	
7,600.0	90.00	180.57	7,100.0	-704.9	-7.0	704.9	0.00	0.00	0.00	
7,700.0	90.00	180.57	7,100.0	-804.9	-8.0	804.9	0.00	0.00	0.00	
7,800.0	90.00	180.57	7,100.0	-904.9	-9.0	904.9	0.00	0.00	0.00	
7,900.0	90.00	180.57	7,100.0	-1,004.9	-10.0	1,004.9	0.00	0.00	0.00	
8,000.0	90.00	180.57	7,100.0	-1,104.9	-11.0	1,104.9	0.00	0.00	0.00	
8,100.0	90.00	180.57	7,100.0	-1,204.9	-12.0	1,204.9	0.00	0.00	0.00	
8,200.0	90.00	180.57	7,100.0	-1,304.9	-13.0	1,304.9	0.00	0.00	0.00	

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Malaga 36-23-28 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3011.0usft
Project:	NM - Eddy (Non-PLU Avalon Project)	MD Reference:	RKB @ 3011.0usft
Site:	Malaga 36-23-28 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 15Feb13		

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)	
8,300.0	90.00	180.57	7,100.0	-1,404.9	-14.0	1,404.9	0.00	0.00	0.00	
8,400.0	90.00	180.57	7,100.0	-1,504.9	-15.0	1,504.9	0.00	0.00	0.00	
8,500.0	90.00	180.57	7,100.0	-1,604.9	-16.0	1,604.9	0.00	0.00	0.00	
8,600.0	90.00	180.57	7,100.0	-1,704.8	-17.0	1,704.9	0.00	0.00	0.00	
8,700.0	90.00	180.57	7,100.0	-1,804.8	-18.0	1,804.9	0.00	0.00	0.00	
8,800.0	90.00	180.57	7,100.0	-1,904.8	-19.0	1,904.9	0.00	0.00	0.00	
8,900.0	90.00	180.57	7,100.0	-2,004.8	-19.9	2,004.9	0.00	0.00	0.00	
9,000.0	90.00	180.57	7,100.0	-2,104.8	-20.9	2,104.9	0.00	0.00	0.00	
9,100.0	90.00	180.57	7,100.0	-2,204.8	-21.9	2,204.9	0.00	0.00	0.00	
9,200.0	90.00	180.57	7,100.0	-2,304.8	-22.9	2,304.9	0.00	0.00	0.00	
9,300.0	90.00	180.57	7,100.0	-2,404.8	-23.9	2,404.9	0.00	0.00	0.00	
9,400.0	90.00	180.57	7,100.0	-2,504.8	-24.9	2,504.9	0.00	0.00	0.00	
9,500.0	90.00	180.57	7,100.0	-2,604.8	-25.9	2,604.9	0.00	0.00	0.00	
9,600.0	90.00	180.57	7,100.0	-2,704.8	-26.9	2,704.9	0.00	0.00	0.00	
9,700.0	90.00	180.57	7,100.0	-2,804.8	-27.9	2,804.9	0.00	0.00	0.00	
9,800.0	90.00	180.57	7,100.0	-2,904.8	-28.9	2,904.9	0.00	0.00	0.00	
9,900.0	90.00	180.57	7,100.0	-3,004.8	-29.9	3,004.9	0.00	0.00	0.00	
10,000.0	90.00	180.57	7,100.0	-3,104.8	-30.9	3,104.9	0.00	0.00	0.00	
10,100.0	90.00	180.57	7,100.0	-3,204.8	-31.9	3,204.9	0.00	0.00	0.00	
10,200.0	90.00	180.57	7,100.0	-3,304.8	-32.9	3,304.9	0.00	0.00	0.00	
10,300.0	90.00	180.57	7,100.0	-3,404.8	-33.9	3,404.9	0.00	0.00	0.00	
10,400.0	90.00	180.57	7,100.0	-3,504.8	-34.9	3,504.9	0.00	0.00	0.00	
10,500.0	90.00	180.57	7,100.0	-3,604.8	-35.9	3,604.9	0.00	0.00	0.00	
10,600.0	90.00	180.57	7,100.0	-3,704.7	-36.9	3,704.9	0.00	0.00	0.00	
10,700.0	90.00	180.57	7,100.0	-3,804.7	-37.9	3,804.9	0.00	0.00	0.00	
10,800.0	90.00	180.57	7,100.0	-3,904.7	-38.9	3,904.9	0.00	0.00	0.00	
10,900.0	90.00	180.57	7,100.0	-4,004.7	-39.8	4,004.9	0.00	0.00	0.00	
11,000.0	90.00	180.57	7,100.0	-4,104.7	-40.8	4,104.9	0.00	0.00	0.00	
11,100.0	90.00	180.57	7,100.0	-4,204.7	-41.8	4,204.9	0.00	0.00	0.00	
11,200.0	90.00	180.57	7,100.0	-4,304.7	-42.8	4,304.9	0.00	0.00	0.00	
11,300.0	90.00	180.57	7,100.0	-4,404.7	-43.8	4,404.9	0.00	0.00	0.00	
11,400.0	90.00	180.57	7,100.0	-4,504.7	-44.8	4,504.9	0.00	0.00	0.00	
11,500.0	90.00	180.57	7,100.0	-4,604.7	-45.8	4,604.9	0.00	0.00	0.00	
11,600.0	90.00	180.57	7,100.0	-4,704.7	-46.8	4,704.9	0.00	0.00	0.00	
11,700.0	90.00	180.57	7,100.0	-4,804.7	-47.8	4,804.9	0.00	0.00	0.00	
11,719.3	90.00	180.57	7,100.0	-4,824.0	-48.0	4,824.2	0.00	0.00	0.00	

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										
Malaga 36-23-28 ST	0.00	0.00	0.0	0.0	0.0	461,464.00	590,195.00	2° 16' 6.73623230 N	10° 30.94998149 W	
- plan hits target center										
- Point										
Malaga 36-23-28 ST	0.00	0.00	7,100.0	-4,824.0	-48.0	456,640.00	590,147.00	15° 18.99887751 N	10° 31.59170445 W	
- plan hits target center										
- Point										

Project: NM -Eddy [Non-PLU Avalon Project]

Site: Malaga 36-23-28 ST 1H

Well: Well #1

Wellbore: Wellbore #1

Design: Plat 15Feb13

PROJECT DETAILS: NM -Eddy [Non-PLU Avalon Project]

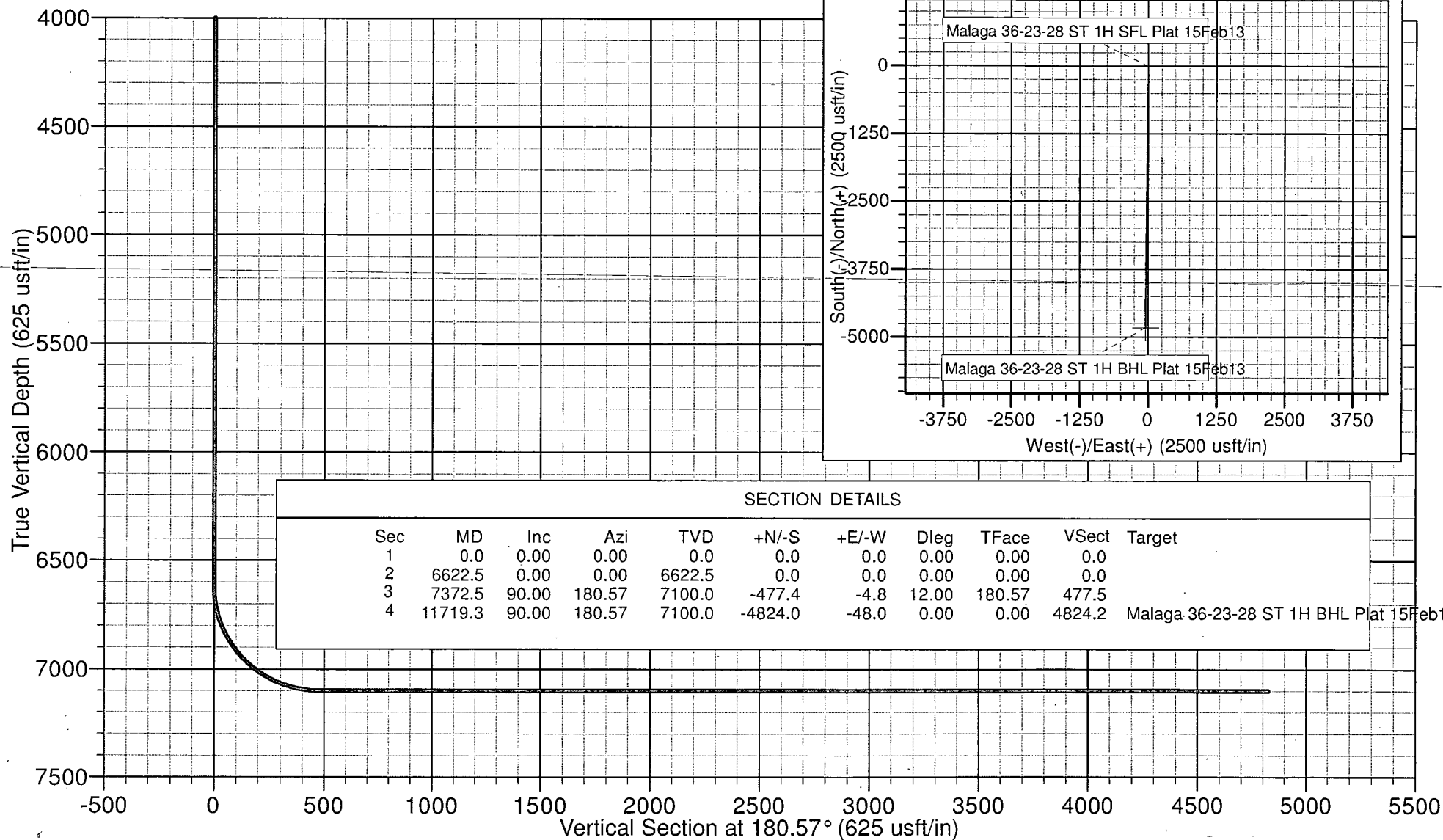
Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Ground Level





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<u>C 00136</u>			ED	3	1	2	25	23S	28E	590426	3571967*	200	42	158
<u>C 00136 A</u>		C	ED	4	4	4	25	23S	28E	591037	3570753*	100	60	40
<u>C 00136 CLW194026</u>	O		ED	3	1	2	25	23S	28E	590426	3571967*	200	52	148
<u>C 00136 CLW235233</u>	O		ED	3	1	2	25	23S	28E	590426	3571967*	200	42	158
<u>C 00136 S</u>			ED	1	1	2	25	23S	28E	590426	3572167*	122	45	77
<u>C 00475</u>			ED	2	1	3	25	23S	28E	589822	3571347*	144	38	106
<u>C 01443</u>		C	ED		2	1	25	23S	28E	590123	3572064*	50	27	23
<u>C 03001 EXPLORE</u>			ED	1	1	4	25	23S	28E	590430	3571355*	140		
<u>C 03535 POD1</u>		C	ED	4	3	3	25	23S	28E	589860	3570751	210	25	185
Average Depth to Water:													41 feet	
Minimum Depth:													25 feet	
Maximum Depth:													60 feet	

Record Count: 9

Basin/County Search:

Basin: Carlsbad

County: Eddy

PLSS Search:

Section(s): 25, 36

Township: 23S

Range: 28E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/18/13 8:01 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER