

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 30-015-40371	² Pool Code 97944	³ Pool Name WC-015 G-06 S233036D;BONE SPRING
⁴ Property Code 39262	⁵ Property Name LOS MEDANOS 36 23 30 STATE	
⁷ OGRID No. 147179	⁸ Operator Name CHESAPEAKE OPERATING, INC.	
		⁶ Well Number 1H
		⁹ Elevation 3350'

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
D	36	23S	30E		150'	NORTH	660'	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
M	36	23S	30E		100'	SOUTH	660'	WEST	EDDY

¹² Dedicated Acres 162.53	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.

PROJECTED FIRST PERFORATIONS 330' FNL & 660' FWL Producing Area 162.53 ACRES Project Area	LOS MEDANOS 36 23 30 STATE NO. 1H WELL X= 652,374 NAD 27 Y= 461,620 LAT. 32.268147 LONG. 103.840358 X= 693,558 NAD83 Y= 461,679 LAT. 32.268270 LONG. 103.840845 ELEVATION +3350' NAVD 88	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete in 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. Date 05/17/2012 Printed Name Bryan Arrant E-mail Address bryan.arrant@chk.com
	PROPOSED BOTTOM HOLE LOCATION X= 652,408 NAD 27 Y= 456,586 LAT. 32.254311 LONG. 103.840322 X= 693,592 NAD83 Y= 456,645 LAT. 32.254434 LONG. 103.840809	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. Date of Survey May 16 2012 Signature and Seal of Professional Surveyor Certificate Number

LOS MEDANOS 36-23-30 STATE 1H WELL	NW ARCH AREA CRN	NE ARCH AREA CRN	SE ARCH AREA CRN	SW ARCH AREA CRN
X= 652,374 NAD 27 Y= 461,520	X= 652,072 NAD 27 Y= 461,292	X= 652,672 NAD 27 Y= 461,897	X= 652,676 NAD 27 Y= 461,291	X= 652,077 NAD 27 Y= 461,292
LAT 32.268147 LONG 103.840358	NW PAD CRN	NE PAD CRN	SE PAD CRN	SW PAD CRN
X= 653,558 NAD83 Y= 461,679	X= 652,208 NAD 27 Y= 461,743	X= 652,538 NAD 27 Y= 461,746	X= 652,540 NAD 27 Y= 461,448	X= 652,210 NAD 27 Y= 461,443
LAT 32.266270 LONG 103.840845	ELEVATION +3364 NAVD 88	ELEVATION +3351 NAVD 88	ELEVATION +3356 NAVD 88	ELEVATION +3361 NAVD 88
ELEVATION +3350 NAVD 88				

R 30 E

Sec. 26

Sec. 25

SEE
INSET

Existing 2" Poly
Line Above Ground

Los Medanos 36-23-30 State
No 1H Well

Sec. 36

Fence Line

State of New Mexico

Sec. 35

PROPOSED
ACCESS ROAD
20' X ±10,165'
±4.67 Acres

Old Calicho
Pit

INSET
Scale: 1"=300'

PROPOSED PAD
±2.27 Acres

Existing 2" Poly
Line Above Ground

Los Medanos 36-23-30 State
No 1H Well

PROPOSED
ARCHEOLOGICAL AREA
600' x 600'
(±6.00 Acres)

Fence Line

15' Wide Existing
Lease Road



SCALE

500' 0 250' 500'

SURFACE USE PLAT

CHESAPEAKE OPERATING, INC.

PROPOSED PAD & ACCESS ROAD
LOS MEDANOS 36-23-30 STATE 1H WELL

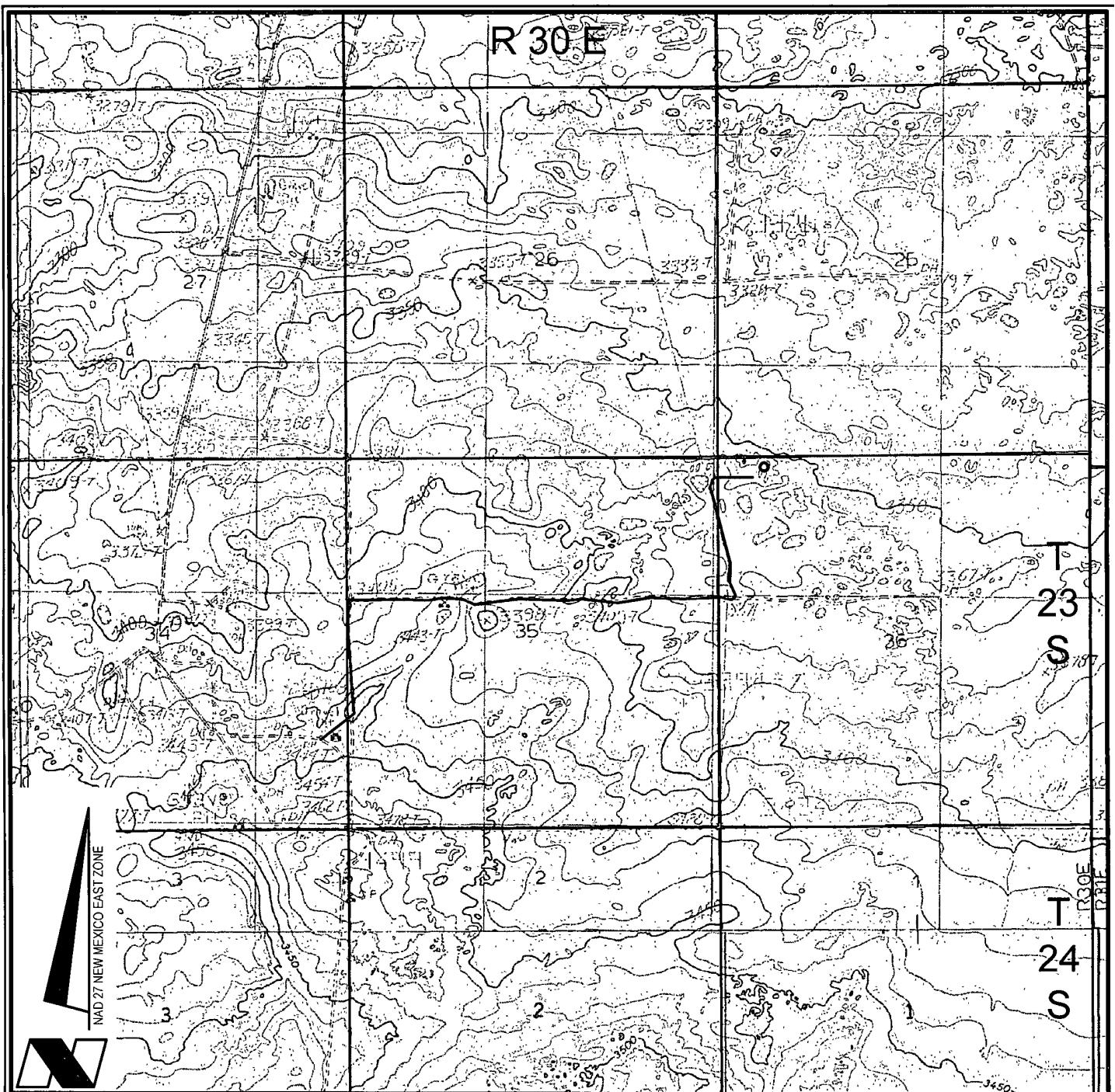
SEC. 34, 35 & 36, T23S-R30E

EDDY COUNTY, NEW MEXICO



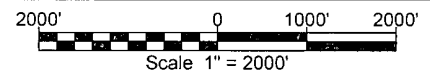
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax 337-232-3299
www.fenstermaker.com

DRAWN BY: DNL		REVISIONS	
PROJ MGR DBM	No # DATE	REVISOR	REVISOR
DATE: MAY 9 2012	No # DATE	REVISOR	REVISOR
FILENAME T1201212124876IDWGLos Medanos 36-23-30 State 1H SUP.dwg			



NOTE
THE CONTENTS OF THESE PLANS ARE INTENDED
EXCLUSIVELY FOR THE PURPOSE OF OBTAINING
ENVIRONMENTAL COMPLIANCE PERMITS

VICINITY MAP



CHESAPEAKE OPERATING, INC.
LOS MEDANOS 36-23-30 STATE NO. 1H WELL
LOCATED 150' FNL AND 660' FWL
SECTIONS 34, 35, & 36, T23S-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: BOF

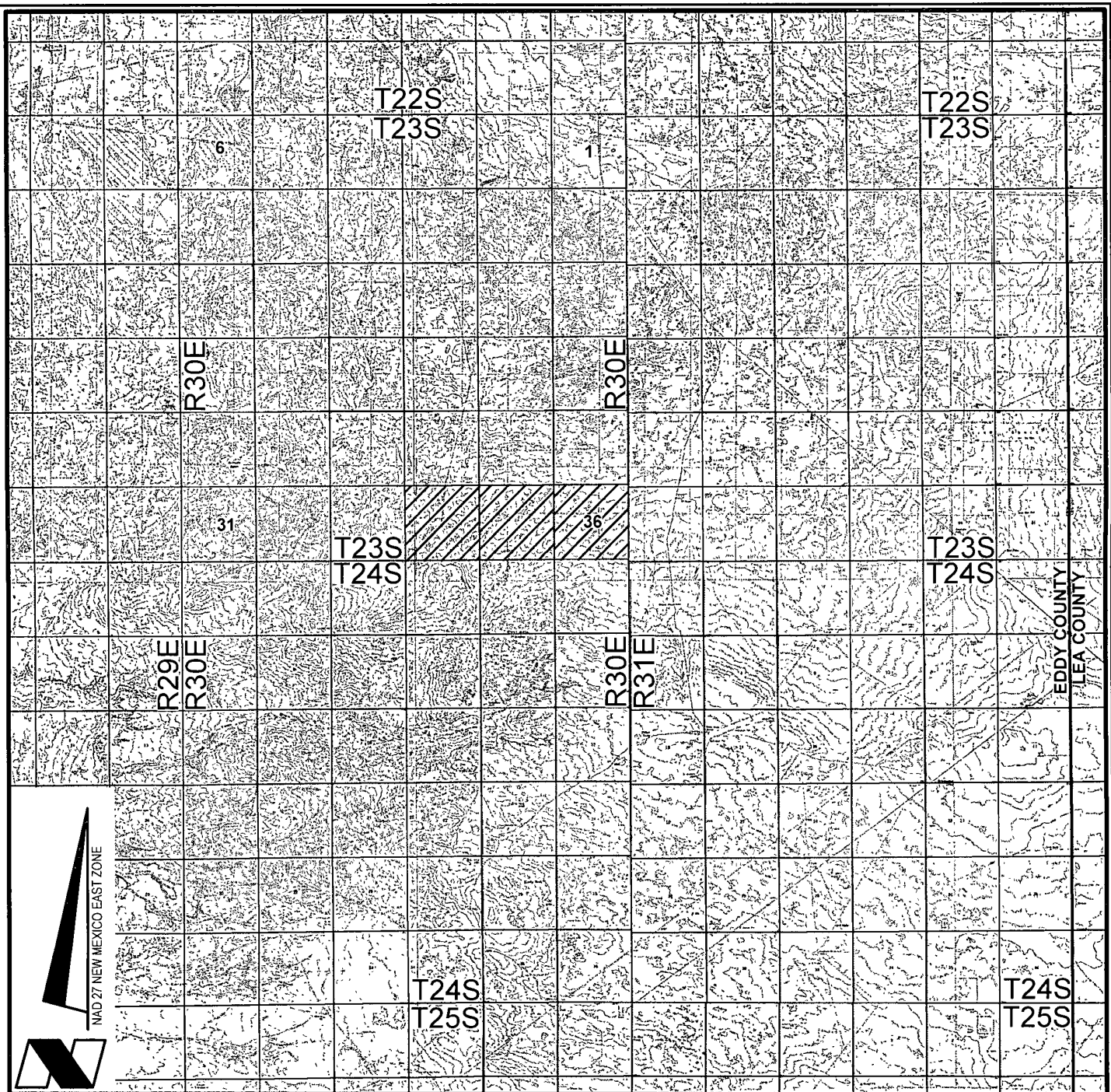
REVISED

DATE MAY 17, 2012

PROJ MGR DBM

SHEET 1 OF 3 SHEETS

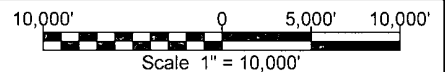
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NAD 27 NEW MEXICO EAST ZONE

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ENVIRONMENTAL COMPLIANCE PERMITS

VICINITY MAP



CHESAPEAKE OPERATING, INC.

LOS MEDANOS 36-23-30 STATE NO. 1H WELL

LOCATED 150' FNL AND 660' FWL

SECTIONS 34, 35, & 36, T23S-R30E

EDDY COUNTY, NEW MEXICO



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135 Regency Sq. Lafayette, LA 70508
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DRAWN BY BOF

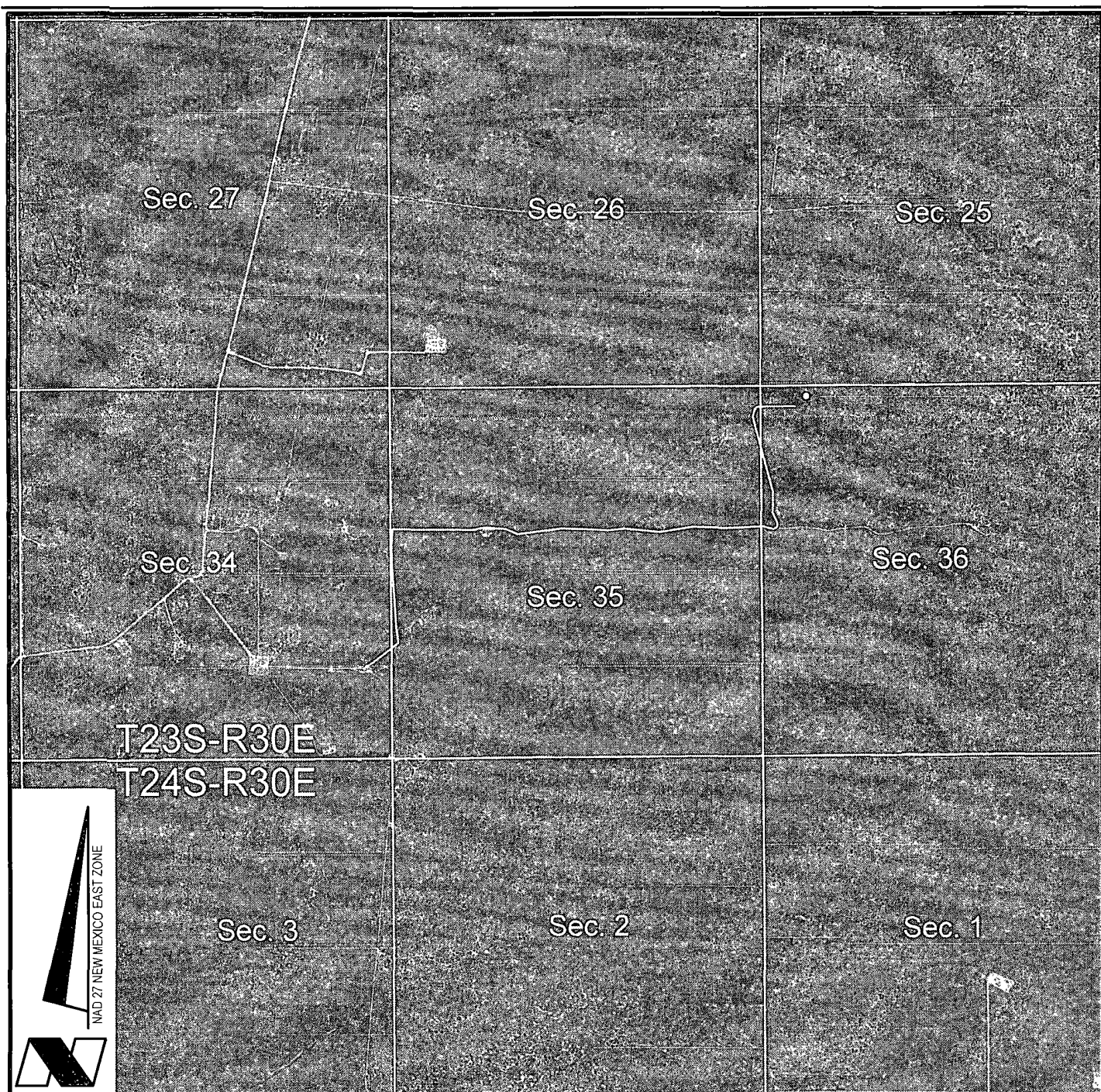
REVISED

DATE MAY 17, 2012

PROJ MGR DBM

SHEET 2 OF 3 SHEETS

FILENAME: T:\2012\2124876\DWG\Los Medanos 36-23-30 State 1H APD.dwg



NOTE
THE CONTENTS OF THESE PLANS ARE INTENDED
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ENVIRONMENTAL COMPLIANCE PERMITS

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

CHESAPEAKE OPERATING, INC.
LOS MEDANOS 36-23-30 STATE NO. 1H WELL
LOCATED 150' FNL AND 660' FWL
SECTIONS 34, 35, & 36, T23S-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 BOF

REVISED

DATE MAY 17, 2012

PROJ MGR DBM

SHEET 3 OF 3 SHEETS

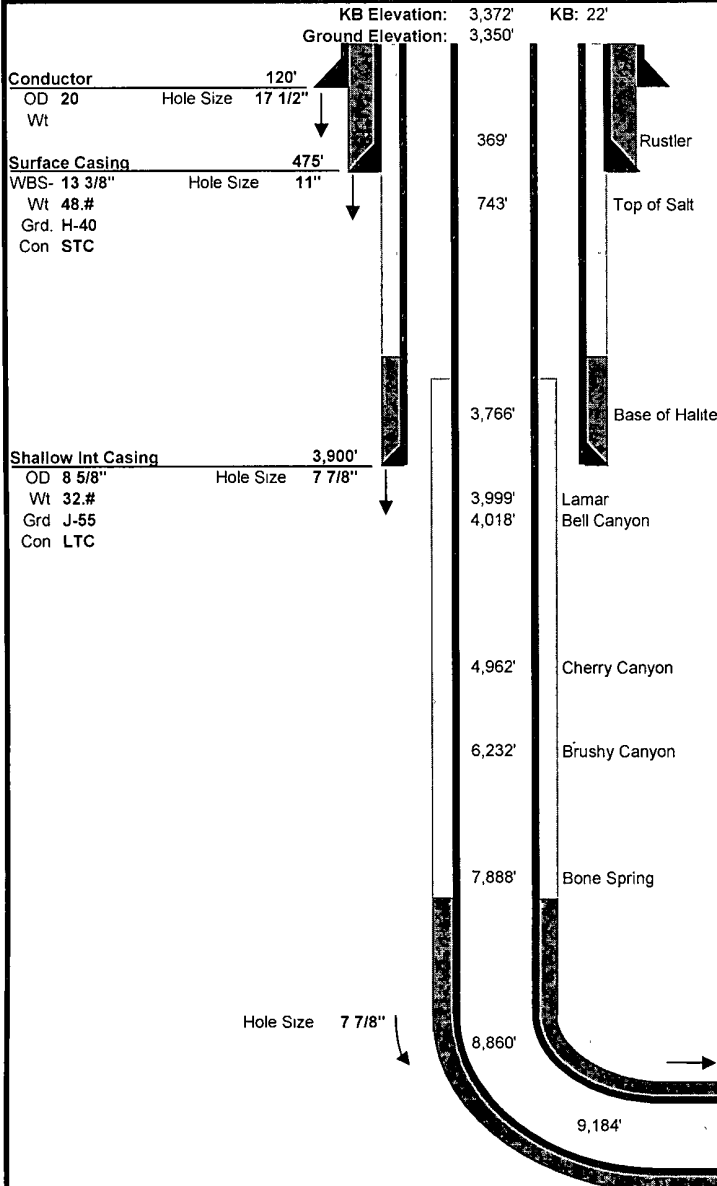
FILENAME T\2012\2124876\DWG\Los Medanos 36-23-30 State 1H APD dwg



Drilling Engineer: Chris Gray
Superintendent: Daniel Gipson
Geologist: Chris Persellin

Well Name: Los Medano: 36 -23-30 State 1H
Target: Bone Spring
County, State: Eddy, NM
Surface Location: 150' FNL 660' FWL, Section 36, Township 23S, Range 30 E
BH Location: 100' FSL 660' FWL, Section 36, Township 23S, Range 30 E
SHL Latitude: 32 268270 SHL North: 461679
SHL Longitude: -103 840845 SHL East: 693558
BHL Latitude: 32 254434 BHL North: 456645
BHL Longitude: -103 840809 BHL East: 693592
Coordinates: NAD 83 Coordinates: NMSPCE

Drilling Rig: Latchaw 14
Directional: Phoenix
Drilling Mud: Nova
Cement: Schlumberger
Wellhead: Sunbelt
Property Number: 645743
AFE Number: 171257



Wellhead Equipment	
A Section	13-3/8" x 13-5/8" 5K SOW (Multibowl)
B Section	N/A (Multibowl)
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' - 475'	Spud Mud	8 4 - 8.7	32 - 34	NC - NC
475' - 3,900'	Brine	9 5 - 10 1	28 - 29	NC - NC
3,900' - 8,761'	FW/Cut Brine	8 3 - 9	28 - 29	NC - NC
8,761' - 9,513'	FW/Cut Brine	8 3 - 9	28 - 29	NC - NC
9,513' - 14,068'	FW/Cut Brine	8 3 - 9	28 - 29	NC - NC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface							
Single Slurry	0'	475'	13 5	1 73	250	182	590
Shallow Int							
Lead	0'	3,400'	12 0	1 99	250	502	1416
Tail	3,400'	3,900'	14 2	1 37	250	82	336
Production							
Lead	3,400'	8,761'	12 4	2 11	75	278	741
Tail	8,761'	14,068'	14 5	1 27	75	289	1276

Type	Logs	Interval	Vendor
Mud Log	2 man Mudlog	Int Csg to TD	Nomac
OH	Triple Combo	Curve to Int Csg	TBD
OH	GR/Neutron	Int Cas to Surf	TBD
LWD	MWD Gamma	Curve and Lateral	Phoenix

Directional Plan						
Target Line:	9241' @ 0' VS w/90 2 deg inclination					
Target Window:	20' above, 20' below, 50' left, 50' right					
	MD	INC	AZM	TVD	VS	DLS
KOP	8,761'	0 00	0 00	8,761'	0'	0 00
EOB	9,513'	90 20	179 61	9,239'	479'	12 00
TD	14,068'	90 20	179 61	9,223'	5,034'	0 00
Hardlines:	Lateral- 330' from parallel lease lines Vertical- Actual Lease Lines					
Notes:	Please note SHL and BHL distance from lease lines					

Permian District

Poker Lake

Los Medanos 36-23-30 State 1H

Well #1

Wellbore #1

Plan: Plat

Standard Planning Report

04 June, 2012

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Well #1
Company:	Permian District	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Los Medanos 36-23-30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

Project	Poker Lake, Eddy County, NM		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Los Medanos 36-23-30 State 1H		
Site Position:		Northing:	461,679 00 usft
From:	Map	Easting:	693,558 00 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13 200 in
		Latitude:	32 268270
		Longitude:	-103 840844
		Grid Convergence:	0.26 °

Well	Well #1		
Well Position	+N/-S	0.00 ft	Northing: 461,679 00 usft
	+E/-W	0.00 ft	Easting: 693,558 00 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Ground Level: 0.00 ft
		Latitude:	32 268270
		Longitude:	-103 840844

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	6/4/2012	7 59
			Dip Angle
			60 18
			Field Strength
			48,559

Design	Plat		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0.00	0.00
			Direction
			(°)
			179.61

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
8,761.44	0.00	0.00	8,761.44	0.00	0.00	0.00	0.00	0.00	0.00	
9,513.11	90.20	179.61	9,238.90	-479.12	3.24	12.00	12.00	0.00	179.61	
14,068.13	90.20	179.61	9,223.00	-5,034.01	34.00	0.00	0.00	0.00	0.00	LM 36-23-30 1H- BHL

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well Well #1
Company:	Permian District	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Los Medanos 36-23-30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well: Well #1
Company:	Permian District	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Los Medanos 36-23-30 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,761.44	0.00	0.00	8,761.44	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	4.63	179.61	8,799.96	-1.56	0.01	1.56	12.00	12.00	0.00
8,900.00	16.63	179.61	8,898.06	-19.96	0.13	19.97	12.00	12.00	0.00
9,000.00	28.63	179.61	8,890.20	-58.37	0.39	58.37	12.00	12.00	0.00
9,100.00	40.63	179.61	9,072.33	-115.09	0.78	115.09	12.00	12.00	0.00
9,200.00	52.63	179.61	9,140.88	-187.64	1.27	187.65	12.00	12.00	0.00
9,300.00	64.63	179.61	9,192.85	-272.86	1.84	272.87	12.00	12.00	0.00
9,400.00	76.63	179.61	9,225.96	-367.03	2.48	367.04	12.00	12.00	0.00
9,500.00	88.63	179.61	9,238.77	-466.02	3.15	466.03	12.00	12.00	0.00
9,513.11	90.20	179.61	9,238.90	-479.12	3.24	479.13	12.00	12.00	0.00
9,600.00	90.20	179.61	9,238.60	-566.01	3.82	566.03	0.00	0.00	0.00
9,700.00	90.20	179.61	9,238.25	-666.01	4.50	666.03	0.00	0.00	0.00
9,800.00	90.20	179.61	9,237.90	-766.01	5.17	766.03	0.00	0.00	0.00
9,900.00	90.20	179.61	9,237.55	-866.01	5.85	866.02	0.00	0.00	0.00
10,000.00	90.20	179.61	9,237.20	-966.00	6.52	966.02	0.00	0.00	0.00
10,100.00	90.20	179.61	9,236.85	-1,066.00	7.20	1,066.02	0.00	0.00	0.00
10,200.00	90.20	179.61	9,236.50	-1,166.00	7.88	1,166.02	0.00	0.00	0.00
10,300.00	90.20	179.61	9,236.15	-1,265.99	8.55	1,266.02	0.00	0.00	0.00
10,400.00	90.20	179.61	9,235.80	-1,365.99	9.23	1,366.02	0.00	0.00	0.00
10,500.00	90.20	179.61	9,235.46	-1,465.99	9.90	1,466.02	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Well-Well #1
Company:	Permian District	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Project:	Poker Lake	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Los Medanos 36-23-30 State 1H	North Reference:	Grd
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.00	90.20	179.61	9,235.11	-1,565.98	10.58	1,566.02	0.00	0.00	0.00
10,700.00	90.20	179.61	9,234.76	-1,665.98	11.25	1,666.02	0.00	0.00	0.00
10,800.00	90.20	179.61	9,234.41	-1,765.98	11.93	1,766.02	0.00	0.00	0.00
10,900.00	90.20	179.61	9,234.06	-1,865.98	12.60	1,866.02	0.00	0.00	0.00
11,000.00	90.20	179.61	9,233.71	-1,965.97	13.28	1,966.02	0.00	0.00	0.00
11,100.00	90.20	179.61	9,233.36	-2,065.97	13.95	2,066.02	0.00	0.00	0.00
11,200.00	90.20	179.61	9,233.01	-2,165.97	14.63	2,166.02	0.00	0.00	0.00
11,300.00	90.20	179.61	9,232.66	-2,265.96	15.30	2,266.02	0.00	0.00	0.00
11,400.00	90.20	179.61	9,232.31	-2,365.96	15.98	2,366.02	0.00	0.00	0.00
11,500.00	90.20	179.61	9,231.96	-2,465.96	16.66	2,466.02	0.00	0.00	0.00
11,600.00	90.20	179.61	9,231.62	-2,565.96	17.33	2,566.01	0.00	0.00	0.00
11,700.00	90.20	179.61	9,231.27	-2,665.95	18.01	2,666.01	0.00	0.00	0.00
11,800.00	90.20	179.61	9,230.92	-2,765.95	18.68	2,766.01	0.00	0.00	0.00
11,900.00	90.20	179.61	9,230.57	-2,865.95	19.36	2,866.01	0.00	0.00	0.00
12,000.00	90.20	179.61	9,230.22	-2,965.94	20.03	2,966.01	0.00	0.00	0.00
12,100.00	90.20	179.61	9,229.87	-3,065.94	20.71	3,066.01	0.00	0.00	0.00
12,200.00	90.20	179.61	9,229.52	-3,165.94	21.38	3,166.01	0.00	0.00	0.00
12,300.00	90.20	179.61	9,229.17	-3,265.94	22.06	3,266.01	0.00	0.00	0.00
12,400.00	90.20	179.61	9,228.82	-3,365.93	22.73	3,366.01	0.00	0.00	0.00
12,500.00	90.20	179.61	9,228.47	-3,465.93	23.41	3,466.01	0.00	0.00	0.00
12,600.00	90.20	179.61	9,228.12	-3,565.93	24.08	3,566.01	0.00	0.00	0.00
12,700.00	90.20	179.61	9,227.78	-3,665.92	24.76	3,666.01	0.00	0.00	0.00
12,800.00	90.20	179.61	9,227.43	-3,765.92	25.44	3,766.01	0.00	0.00	0.00
12,900.00	90.20	179.61	9,227.08	-3,865.92	26.11	3,866.01	0.00	0.00	0.00
13,000.00	90.20	179.61	9,226.73	-3,965.92	26.79	3,966.01	0.00	0.00	0.00
13,100.00	90.20	179.61	9,226.38	-4,065.91	27.46	4,066.01	0.00	0.00	0.00
13,200.00	90.20	179.61	9,226.03	-4,165.91	28.14	4,166.00	0.00	0.00	0.00
13,300.00	90.20	179.61	9,225.68	-4,265.91	28.81	4,266.00	0.00	0.00	0.00
13,400.00	90.20	179.61	9,225.33	-4,365.90	29.49	4,366.00	0.00	0.00	0.00
13,500.00	90.20	179.61	9,224.98	-4,465.90	30.16	4,466.00	0.00	0.00	0.00
13,600.00	90.20	179.61	9,224.63	-4,565.90	30.84	4,566.00	0.00	0.00	0.00
13,700.00	90.20	179.61	9,224.29	-4,665.90	31.51	4,666.00	0.00	0.00	0.00
13,800.00	90.20	179.61	9,223.94	-4,765.89	32.19	4,766.00	0.00	0.00	0.00
13,900.00	90.20	179.61	9,223.59	-4,865.89	32.86	4,866.00	0.00	0.00	0.00
14,000.00	90.20	179.61	9,223.24	-4,965.89	33.54	4,966.00	0.00	0.00	0.00
14,068.13	90.20	179.61	9,223.00	-5,034.01	34.00	5,034.12	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
Shape									
LM 36-23-30 1H- BHL- F	0.00	0.00	9,223.00	-5,034.01	34.00	456,645.00	693,592.00	32.254432	-103.840809
- plan hits target center									
- Point									
LM 36-23-30 1H- SHL- F	0.00	0.00	9,241.00	0.00	0.00	461,679.00	693,558.00	32.268270	-103.840844
- plan misses target center by 199.36ft at 9132.23ft MD (9096.07 TVD, -136.88 N, 0.92 E)									
- Point									

**Chesapeake Operating, Inc.'s Closed Loop System
LOS MEDANOS 36 23 30 STATE 1H
Unit D, Sec. 36, T-23-S R-30-E
Eddy Co., NM
API # TBD**

Equipment & Design:

Chesapeake Operating, Inc. is to use a closed loop system with roll-off steel pits. Latshaw Drilling Company, LLC (Rig # 14) is scheduled to drill this well.

Mud System:

(2) Lewco WH-1312 (1300 hp) mud pumps.
(2) Tank mud system (1200 bbl capacity) with roofs.
National Oil Well 285P linear motion shale shakers.
Desander (2) 10" cones-1000 gpm.
Desilter (12) 4" cones-600 gpm.
Vacuum degasser-1000 gpm.

Fresh and brine water tanks with the capacity to efficiently drill well.

Operations & Maintenance:

During each tour, the rig's drilling crew will inspect and monitor the drilling fluids contained within the steel pits and visually monitor any spill which may occur. Should a spill, release, or leak occur; the NMOCD District II office in Artesia (575-748-1283) will be notified. Please note that notifications may be made earlier to the district office should a greater release occur, per NMOCD's rules.

Closure:

During and after drilling operations, drilling fluids and cuttings will be hauled to Controlled Recovery, Inc. Permit # NM-01-0006.

The alternative disposal facility will be Sundance Disposal. Permit # NM-01-0003.



Regulatory Department

JUNE 5, 2012

CERTIFIED MAIL 7011 2970 0004 3615 8329

Mosaic Potash Carlsbad, Inc.
1361 Potash Mines Rd.
Carlsbad, NM 88220
Attn: Mr. Dan Morehouse or To Whom It May Concern

RE: LOS MEDANOS 36 23 30 STATE 1H
Located in Unit D, Sec. 36, T-23-S R-30-E
150' FNL & 660' FWL Eddy Co., NM

Dear Mr. Morehouse,

Please find a copy of the application to drill for the above captioned well submitted to the New Mexico Oil Conservation Division on June 4, 2012.

Division Order R-111-P (G) (2) requires that operators provide notice to each potash lease holder within a radius of one mile of the proposed well.

Enclosed with the APD is NMOCD's C-102 land plat along with numerous maps showing the surface location of the well.

Please call or email me if you have any questions or concerns.

Yours truly,

Bryan Arrant
Regulatory Specialist II
Chesapeake Energy Corporation
Office: (405) 935-3782
Mobile: (903) 263-8984
Fax: (405) 849-3782
E-mail: bryan.arrant@chk.com

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Postmark Here	
Sent To	
Mosaic Potash Carlsbad, Inc.	
Street, Apt. No. or PO Box No. 1361 Potash Mines Rd	
City, State, ZIP+4 Carlsbad, NM 88220	
PS Form 3800, August 2006	
See Reverse for Instructions	

Chesapeake Energy Corporation

P.O. Box 18496 • Oklahoma City, OK 73154-0496 • 6100 N. Western Avenue • Oklahoma City, OK 73118
405-848-8000

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 Rd, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

District IV

1220 S St Francis Dr, Santa Fe, NM 87505
Phone (505) 476-3470 Fax (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-101

August 1, 2011

Permit 149675

RECEIVED**JUN 06 2012****NMOCD ARTESIA****APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1 Operator Name and Address CHESAPEAKE OPERATING, INC. P.O. Box 18496 Oklahoma City, OK 73154		2 OGRID Number 147179
		3 API Number
4 Property Code	5 Property Name LOS MEDANOS 36 23 30 STATE	6 Well No 001H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	36	23S	30E	D	150	N	660	W	EDDY

8. Pool Information

WC-015 G-06 S233036D; BONE SPRING	0
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Additional Well Information

9 Work Type New Well	10 Well Type OIL	11 Cable/Rotary	12 Lease Type State	13 Ground Level Elevation 3350
14 Multiple N	15. Proposed Depth 14068	16 Formation Bone Spring	17 Contractor	18 Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17	13.375	48	475	590	0
Intl	11	8.625	32	3900	1752	0
Prod	7.875	5.5	17	14068	2017	3400

Casing/Cement Program: Additional Comments

NMOCD's forms C-102, C-144(CLEZ) pit permit, well bore diagram, directional planning report, will be submitted separately. 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 Requires NSL. Application for NSL will be filed with Santa Fe and copied for the Artesia District office. Application is for "drill only". R-111-P. See Comments

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	Hydril
DoubleRam	5000	5000	Shaffer

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

I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Bryan Arrant

Title: Regulatory Specialist II

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Email Address: bryan.arrant@chk.com		
Date: 6/4/2012	Phone: 405-935-3782 	

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

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1000 Rio Brazos Rd , Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

District IV

1220 S St Francis Dr , Santa Fe, NM 87505
Phone (505) 476-3470 Fax (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102

August 1, 2011

Permit 149675

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name WC-015 G-06 S233036D; BONE SPRING
4 Property Code	5 Property Name LOS MEDANOS 36 23 30 STATE	6 Well No 001H
7 OGRID No 147179	8 Operator Name CHESAPEAKE OPERATING, INC.	9 Elevation 3350

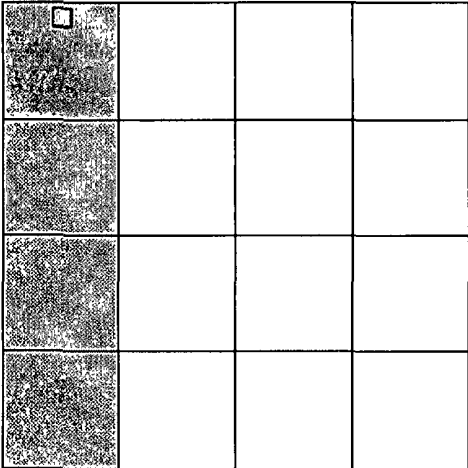
10. Surface Location

UL - Lot D	Section 36	Township 23S	Range 30E	Lot Idn	Feet From 150	N/S Line N	Feet From 660	E/W Line W	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12 Dedicated Acres 160.00		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

	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(s) 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> E-Signed By: Bryan Arrant Title: Regulatory Specialist II Date: 6/4/2012		
	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> Surveyed By: W.M. Daniel III Date of Survey: 5/16/2012 Certificate Number: 15078		

Permit Comments

Operator: CHESAPEAKE OPERATING, INC. , 147179

Well: LOS MEDANOS 36 23 30 STATE #001H

API:

Created By	Comment	Comment Date
Bryan Arrant	Mosaic is the Potash lease holder within one mile of well location. A copy of the APD has been submitted by certified mail	6/4/2012
Bryan Arrant	BOP test to be performed by 3rd party.	6/4/2012
Bryan Arrant	Will require administrative order for non-standard location Well will not produce until NSL is approved.	6/4/2012
Bryan Arrant	Mosaic Potash lease maps are provided	6/4/2012

Bryan Arrant

From: Bryan Arrant
Sent: Tuesday, June 05, 2012 8:16 AM
To: Shapard, Craig, EMNRD (craig.shapard@state.nm.us); Sharp, Karen, EMNRD (Karen.Sharp@state.nm.us); Randy.Dade@state.nm.us
Subject: LOS MEDANOS 36-23-30 STATE 1H (APD & Notice to Potash Lease Holder)
Attachments: APD_2012-06-05.pdf; Notice to Potash Lease Holder.pdf

Hard copies to be send out by UPS today.

Thank you,
Bryan Arrant
Regulatory Specialist II
Chesapeake Energy Corporation
Office: (405) 935-3782
Mobile: (903) 263-8984
Fax: (405) 849-3782
E-mail: bryan.arrant@chk.com

