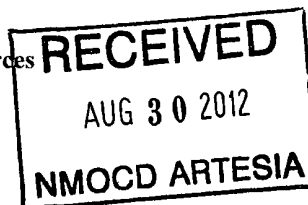


District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
District II
811 S First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S St Francis Dr.,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

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



Form C-101
Revised August 1, 2011

Permit

Amended

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 30-015-40371
⁴ Property Code	⁵ Property Name LOS MEDANOS 36 23 30 STATE	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
M	36	23S	30E		200'	SOUTH	660'	WEST	EDDY

⁸ Pool Information

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

⁹ Work Type N	¹⁰ Well Type O	¹¹ Cable/Rotary R	¹² Lease Type S	¹³ Ground Level Elevation 3422' GR
¹⁴ Multiple No	¹⁵ Proposed Depth 13789'	¹⁶ Formation BONE SPRING	¹⁷ Contractor TRINIDAD	¹⁸ Spud Date
Depth to Ground water 186'		Distance from nearest fresh water well 1.5 miles		Distance to nearest surface water 9 miles

¹⁹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
SURFACE	17 1/2"	13. 3/8"	48#	525'	737	0'
INTER.	11	8. 5/8	32#	3925'	1758	0'
PROD.	7 7/8"	5. 1/2"	17#	13,789'	1872	3815'

Casing/Cement Program: Additional Comments

NMOCD's forms C-102, maps, C-144(CLEZ) pit permit, well bore diagram & directional planning report is attached. R-111-P. Certified letter submitted to Mosaic Potash. No known high levels of H2S.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	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 ☐.

C-144 (CLEZ)

Printed name: Bryan Arrant

Title: Regulatory Specialist II

E-mail Address: bryan.arrant@chk.com

Date: 08/29/2012

Phone: (405)935-3782

OIL CONSERVATION DIVISION

Approved By:

Title:

Approved Date:

Expiration Date:

Conditions of Approval Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720

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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 30-015-403N	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	⁶ Well Number 1H
⁷ OGRID No. 147179	⁸ Operator Name CHESAPEAKE OPERATING, INC.	⁹ Elevation 3422'

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
M	36	23S	30E		200'	SOUTH	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
D	36	23S	30E		330'	NORTH	660'	WEST	EDDY

¹² Dedicated Acres 162.37	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

Project Area

	PROPOSED BOTTOM HOLE LOCATION X= 652,375 NAD 27 Y= 461,440 LAT 32.267652 LONG 103.840357 X= 693,559 NAD83 Y= 461,499 LAT 32.267775 LONG 103.840844	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> 08/29/2012 Signature Date Bryan Arrant Printed Name bryan.arrant@chk.com E-mail Address
	LOS MEDANOS 36 23 30 STATE NO. 1H WELL X= 652,408 NAD 27 Y= 456,686 LAT. 32.254586 LONG. 103.840323 X= 693,591 NAD83 Y= 456,745 LAT. 32.254709 LONG 103.840809 ELEVATION +3422' NAVD 88	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my belief. Aug 22, 2012 Date of Survey <i>[Signature]</i> Signature and Seal of Licensed Professional Surveyor #15078 Certificate Number	

LOS MEDANOS 36-23-30 STATE NO. 1H WELL	NW ARCH AREA CRN	NE ARCH AREA CRN	SE ARCH AREA CRN	SW ARCH AREA CRN
X= 652,409 NAD 27 Y= 456,686 LAT. 32 25 45.98 LONG. 103.84 03.23 X= 653,591 NAD 83 Y= 456,745 LAT. 32 25 47.09 LONG. 103.84 03.99 ELEVATION +3422' NAVD 88	X= 652,080 NAD 27 Y= 456,984 NW PAD CRN X= 652,231 NAD 27 Y= 456,850 ELEVATION +3421' NAVD 88	X= 652,680 NAD 27 Y= 456,988 NE PAD CRN X= 652,531 NAD 27 Y= 456,852 ELEVATION +3416' NAVD 88	X= 652,685 NAD 27 Y= 456,388 SE PAD CRN X= 652,534 NAD 27 Y= 456,522 ELEVATION +3423' NAVD 88	X= 652,085 NAD 27 Y= 456,384 SW PAD CRN X= 652,234 NAD 27 Y= 456,520 ELEVATION +3424' NAVD 88

SECTION 35

BLM

SECTION 34

T23S-R30E

T24S-R30E

Existing
Lease
Road

PROPOSED
ACCESS ROAD
20' X ±6364'
±2.92 Acres

SECTION 3

±8' Access Road

FOR THE EXCLUSIVE USE OF
CHESAPEAKE OPERATING, 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.

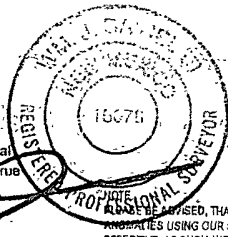
WM. J. Daniel III
Registration No. 15068

SCALE

500' 0 250' 500'



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



IT IS ADVISED, THAT WHILE REASONABLE EFFORTS ARE MADE TO LOCATE AND VERIFY PIPELINES AND
UTILITIES 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
ADVISED AND IN MOST STATES, LAW, FOR THE CONTRACTOR TO CONTACT THE CENTER FOR ASSISTANCE
IN LOCATING AND MARKING UNDERGROUND UTILITIES. FOR GUIDANCE, A FEW STATES WITH SUCH
PROGRAMS ARE LISTED BELOW: LOUISIANA ONE CALL™ www.lonecall.com, MISSISSIPPI ONE CALL SYSTEM,
<http://www.ms1call.org/>, TEXAS ONE CALL SYSTEM <http://www.texasonecall.com>, ARKANSAS ONE CALL SYSTEM,
<http://www.arkonecall.com/>.

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 RISK
CERTIFICATION ANALYSES, INCLUDING BUT NOT LIMITED TO DETERMINING WHETHER THE PROJECT WILL
IMPACT FLOOD HAZARDS IN CONNECTION WITH FEDERAL, 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.

State of New Mexico SECTION 36 ±35' Access Road

PROPOSED
ARCHAEOLOGICAL AREA
±5.99 Acres

PROPOSED PAD
±2.27 Acres

Los Medanos
36-23-30 State
No. 1H Well
FWL=660'
FSL=200'

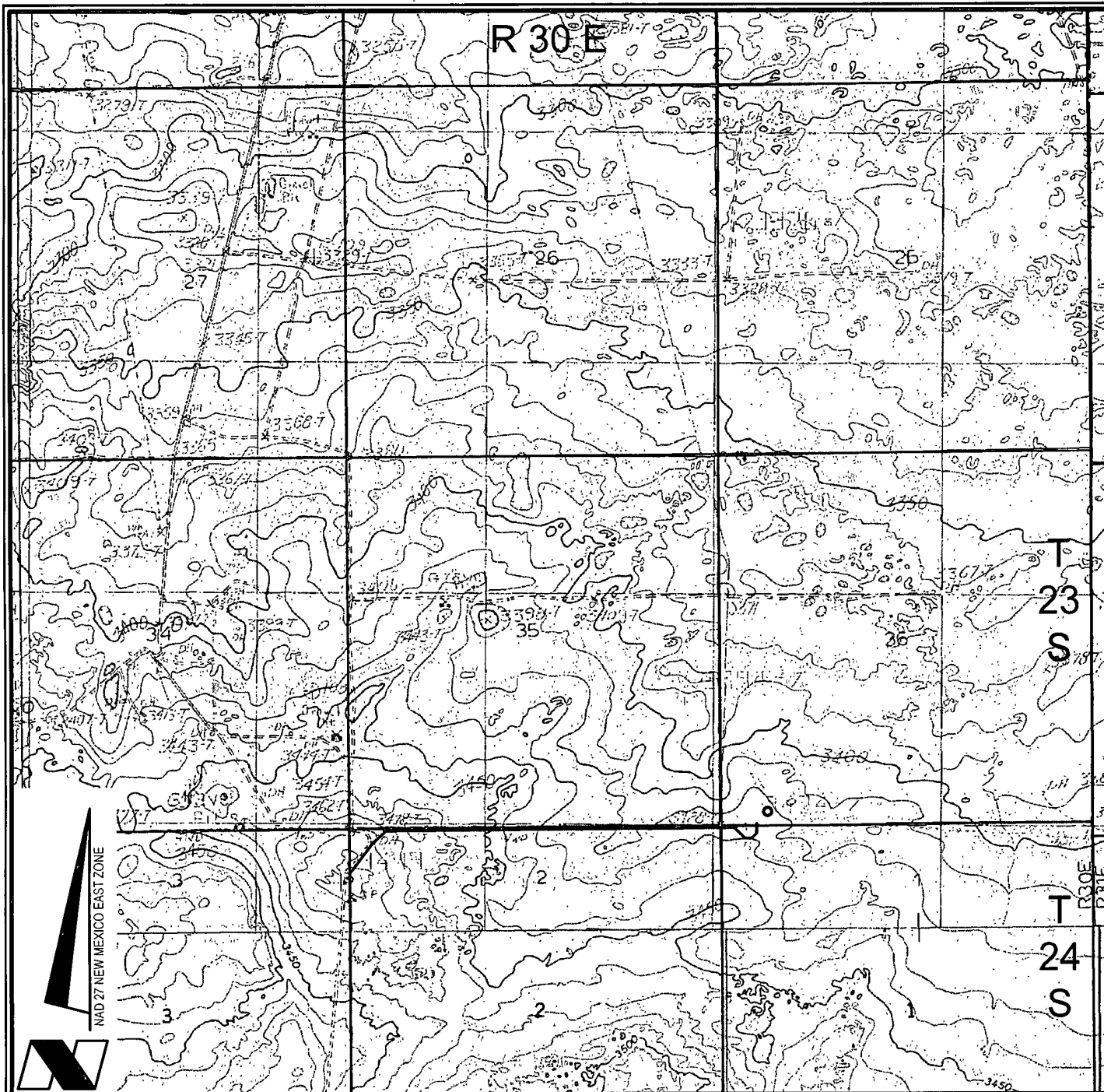
Fence Line

BLM SECTION 1 ±691' Access Road

CHESAPEAKE OPERATING, INC.

PROPOSED PAD & ACCESS ROAD
LOS MEDANOS 36-23-30 STATE NO. 1H WELL
SECTION 36, T23S-R30E & SECTIONS 1, 2 & 3, T24S-R30E
EDDY COUNTY, NEW MEXICO

DRAWN BY: BMO	REVISIONS		
PROJ. MGR.: DBM	No. 1	DATE: 08/20/2012	REVISED BY: BMO
DATE: JULY 03, 2012	No.	DATE:	REVISED BY:
FILENAME: T:\2012\124876\DWG\Los Medanos 36-23-30 State 1H SUP revised.dwg			



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

VICINITY MAP

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

CHESAPEAKE OPERATING, INC.

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

LOCATED 200' FSL AND 660' FWL

SECTION 36, T23S-R30E; SECTIONS 1, 2, & 3, T24S-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

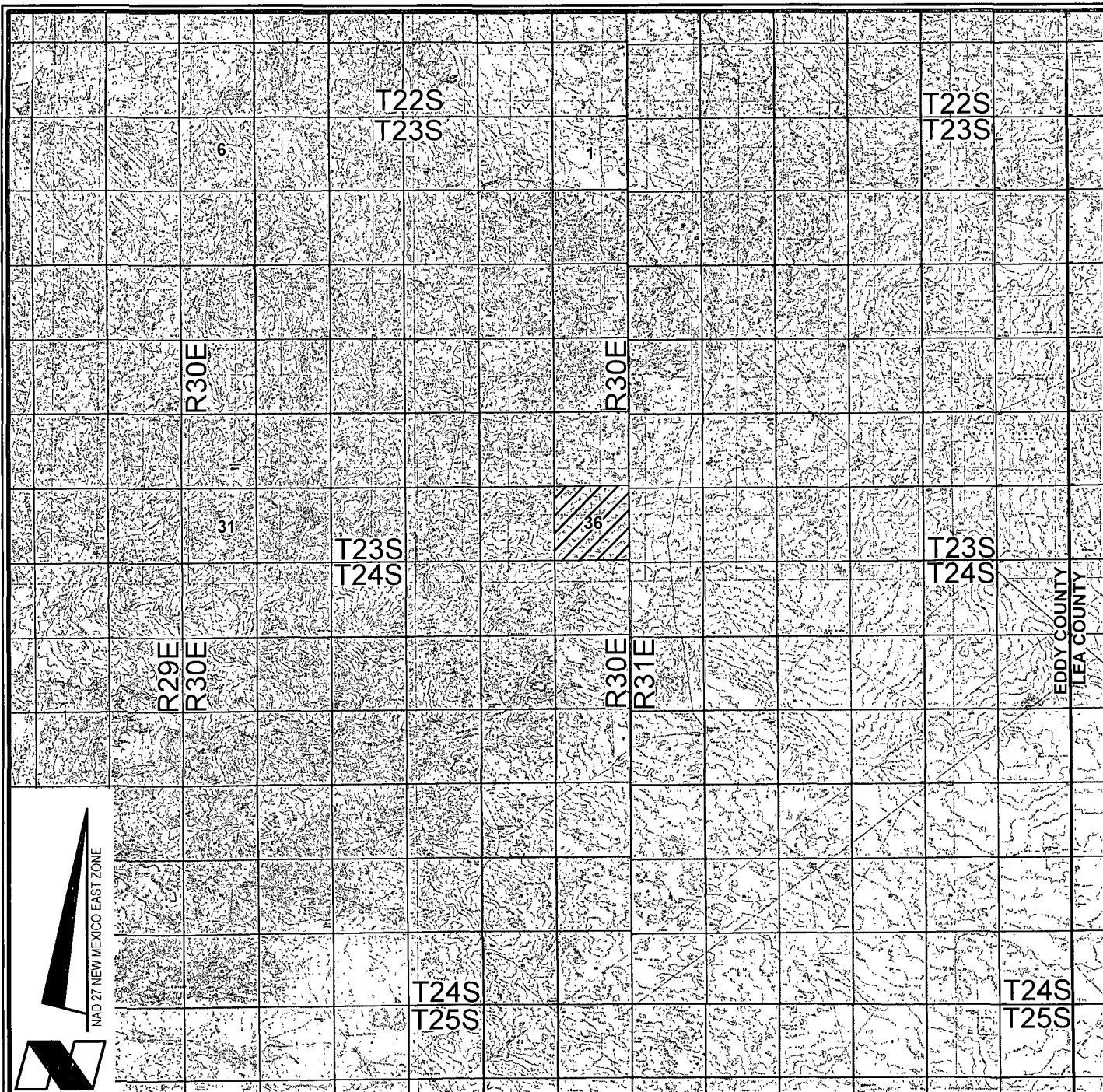
REVISED: 07/05/2012 BMO

DATE: MAY 17, 2012

PROJ. MGR DBM

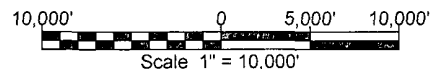
SHEET 1 OF 3 SHEETS

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



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

VICINITY MAP



CHESAPEAKE OPERATING, INC.

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

LOCATED 200' FSL AND 660' FWL

SECTION 36, T23S-R30E; SECTIONS 1, 2, & 3, T24S-R30E

EDDY COUNTY, NEW MEXICO



Lafayette New Orleans Houston
135 Regency Sq Lafayette, LA 70508
Ph 337-237-2200 Fax 337-232-3299
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DRAWN BY BMO

REVISED 07/05/2012 BMO

DATE MAY 17, 2012

PROJ. MGR DBM

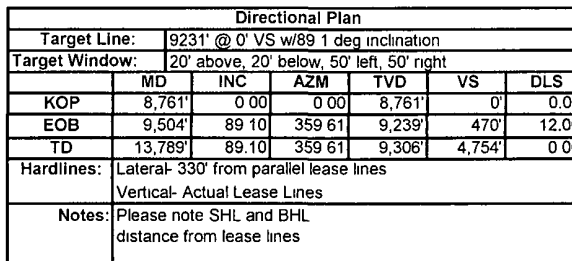
08/20/2012 BMO

SHEET 2 OF 3 SHEETS

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



Drilling Rig:	Trinidad 110
Directional:	Phoenix
Drilling Mud:	Nova
Cement:	Schlumberger
Wellhead:	Sunbelt
Property Number:	
A/E Number:	



LOGS	Type	Logs	Interval	Vendor
	OH	Triple Combo	Curve TD to Int Csg	TBD
	Mudlog	2 man	Int Csg to TD	Nomac
	LWD	MWD Gamma	Curve and Lateral	Phoenix

Permian District

Poker Lake

Los Medanos 36-23-30 State 1H

Well #1

Wellbore #1

Plan: Plat

Standard Planning Report

27 August, 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:	456,745.00 usft	Latitude:	32.254707
From:	Map	Easting:	693,591.00 usft	Longitude:	-103.840811
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.26 °

Well	Well #1				
Well Position	+N/-S	0.00 ft	Northing:	456,745.00 usft	Latitude: 32.254707
	+E/-W	0.00 ft	Easting:	693,591.00 usft	Longitude: -103.840811
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level: 0.00 ft

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

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/4/2012	7.58	60.17	48,551

Design	Plat
---------------	------

Audit Notes:	
Version:	Phase: PROTOTYPE Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
	0.00 0.00 0.00 359.61

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	
8,761.29	0.00	0.00	8,761.29	0.00	0.00	0.00	0.00	0.00	0.00	
9,503.79	89.10	359.61	9,238.70	469.96	-3.16	12.00	12.00	0.00	359.61	
13,788.47	89.10	359.61	9,306.00	4,754.01	-32.00	0.00	0.00	0.00	0.00	LM 36-23-30 1H- BI

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
8,761.29	0.00	0.00	8,761.29	0 00	0.00	0 00	0.00	0 00	0 00
8,800.00	4.64	359.61	8,799.96	1.57	-0.01	1.57	12.00	12.00	0 00
8,900.00	16.64	359.61	8,898.06	20.01	-0.13	20.01	12.00	12.00	0.00
9,000.00	28.64	359.61	8,990.18	58.44	-0.39	58.44	12.00	12.00	0 00
9,100.00	40.64	359.61	9,072.30	115.18	-0.78	115.18	12.00	12.00	0.00
9,200.00	52.64	359.61	9,140.83	187.76	-1.26	187.76	12.00	12.00	0 00
9,300.00	64.64	359.61	9,192.76	273.00	-1.84	273.00	12.00	12.00	0 00
9,400.00	76.64	359.61	9,225.85	367.17	-2.47	367.18	12.00	12.00	0 00
9,500.00	88.64	359.61	9,238.62	466.16	-3.14	466.17	12.00	12.00	0.00
9,503.79	89.10	359.61	9,238.70	469.96	-3.16	469.97	12.00	12.00	0.00
9,600.00	89.10	359.61	9,240.21	566.15	-3.81	566.16	0.00	0.00	0 00
9,700.00	89.10	359.61	9,241.78	666.13	-4.48	666.15	0 00	0.00	0.00
9,800.00	89.10	359.61	9,243.35	766.12	-5.16	766.14	0 00	0 00	0.00
9,900.00	89.10	359.61	9,244.92	866.10	-5.83	866.12	0 00	0 00	0.00
10,000.00	89.10	359.61	9,246.49	966.09	-6.50	966.11	0 00	0 00	0 00
10,100.00	89.10	359.61	9,248.06	1,066.07	-7.18	1,066.10	0.00	0.00	0.00
10,200.00	89.10	359.61	9,249.63	1,166.06	-7.85	1,166.09	0.00	0 00	0.00
10,300.00	89.10	359.61	9,251.21	1,266.05	-8.52	1,266.07	0 00	0.00	0.00
10,400.00	89.10	359.61	9,252.78	1,366.03	-9.19	1,366.06	0 00	0.00	0.00
10,500.00	89.10	359.61	9,254.35	1,466.02	-9.87	1,466.05	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)
10,600.00	89.10	359.61	9,255.92	1,566.00	-10.54	1,566.04	0.00	0.00	0.00
10,700.00	89.10	359.61	9,257.49	1,665.99	-11.21	1,666.02	0.00	0.00	0.00
10,800.00	89.10	359.61	9,259.06	1,765.97	-11.89	1,766.01	0.00	0.00	0.00
10,900.00	89.10	359.61	9,260.63	1,865.96	-12.56	1,866.00	0.00	0.00	0.00
11,000.00	89.10	359.61	9,262.20	1,965.94	-13.23	1,965.99	0.00	0.00	0.00
11,100.00	89.10	359.61	9,263.77	2,065.93	-13.91	2,065.98	0.00	0.00	0.00
11,200.00	89.10	359.61	9,265.34	2,165.91	-14.58	2,165.96	0.00	0.00	0.00
11,300.00	89.10	359.61	9,266.91	2,265.90	-15.25	2,265.95	0.00	0.00	0.00
11,400.00	89.10	359.61	9,268.48	2,365.88	-15.93	2,365.94	0.00	0.00	0.00
11,500.00	89.10	359.61	9,270.05	2,465.87	-16.60	2,465.93	0.00	0.00	0.00
11,600.00	89.10	359.61	9,271.63	2,565.86	-17.27	2,565.91	0.00	0.00	0.00
11,700.00	89.10	359.61	9,273.20	2,665.84	-17.94	2,665.90	0.00	0.00	0.00
11,800.00	89.10	359.61	9,274.77	2,765.83	-18.62	2,765.89	0.00	0.00	0.00
11,900.00	89.10	359.61	9,276.34	2,865.81	-19.29	2,865.88	0.00	0.00	0.00
12,000.00	89.10	359.61	9,277.91	2,965.80	-19.96	2,965.86	0.00	0.00	0.00
12,100.00	89.10	359.61	9,279.48	3,065.78	-20.64	3,065.85	0.00	0.00	0.00
12,200.00	89.10	359.61	9,281.05	3,165.77	-21.31	3,165.84	0.00	0.00	0.00
12,300.00	89.10	359.61	9,282.62	3,265.75	-21.98	3,265.83	0.00	0.00	0.00
12,400.00	89.10	359.61	9,284.19	3,365.74	-22.66	3,365.82	0.00	0.00	0.00
12,500.00	89.10	359.61	9,285.76	3,465.72	-23.33	3,465.80	0.00	0.00	0.00
12,600.00	89.10	359.61	9,287.33	3,565.71	-24.00	3,565.79	0.00	0.00	0.00
12,700.00	89.10	359.61	9,288.90	3,665.70	-24.67	3,665.78	0.00	0.00	0.00
12,800.00	89.10	359.61	9,290.47	3,765.68	-25.35	3,765.77	0.00	0.00	0.00
12,900.00	89.10	359.61	9,292.04	3,865.67	-26.02	3,865.75	0.00	0.00	0.00
13,000.00	89.10	359.61	9,293.62	3,965.65	-26.69	3,965.74	0.00	0.00	0.00
13,100.00	89.10	359.61	9,295.19	4,065.64	-27.37	4,065.73	0.00	0.00	0.00
13,200.00	89.10	359.61	9,296.76	4,165.62	-28.04	4,165.72	0.00	0.00	0.00
13,300.00	89.10	359.61	9,298.33	4,265.61	-28.71	4,265.70	0.00	0.00	0.00
13,400.00	89.10	359.61	9,299.90	4,365.59	-29.39	4,365.69	0.00	0.00	0.00
13,500.00	89.10	359.61	9,301.47	4,465.58	-30.06	4,465.68	0.00	0.00	0.00
13,600.00	89.10	359.61	9,303.04	4,565.56	-30.73	4,565.67	0.00	0.00	0.00
13,700.00	89.10	359.61	9,304.61	4,665.55	-31.40	4,665.65	0.00	0.00	0.00
13,788.47	89.10	359.61	9,306.00	4,754.01	-32.00	4,754.12	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
LM 36-23-30 1H- SHL - hit/miss target - Shape - Point	0.00	0.00	9,231.00	0.00	0.00	456,745.00	693,591.00	32 254707	-103 840811
- plan misses target center by 192.50ft at 9125.25ft MD (9091 01 TVD, 132.12 N, -0 89 E)									
LM 36-23-30 1H- BHL - plan hits target center - Point	0.00	0.00	9,306.00	4,754.01	-32.00	461,499.00	693,559.00	32 267775	-103 840844

Project: Poker Lake
Site: Los Medanos 36-23-30 State 1H
Well: Well #1
Wellbore: Wellbore #1
Design: Plat

PROJECT DETAILS: Poker Lake

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

