

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROV
OMB NO. 1004-01:
Ex. 105-10 31 2011

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
CIMAREX ENERGY COMPANY

Contact: TERRI STATHEM
E-Mail: tstatthem@cimarex.com

3a. Address
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-620-1936

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 33 T19S R34E Mer NMP NENE 220FNL 880FEL

5. Lease Serial No.
NMNM57285

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CHAPARRAL 33 FEDERAL CC 3

9. API Well No.
30-025-40253

10. Field and Pool, or Exploratory
QUAIL RIDGE; BONE SPRING S

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex Energy Co. respectfully request approval to change the TD & SHL for the above well due to numerous pipelines and E lines in the area making it impossible to build the well pad at its current approved location:

Approved SHL: 200 FNL 810 FEL, Sec. 33, 19S, 34E
Approved BHL: 330 FSL 660 FEL, Sec. 33, 19S, 34E
Approved TD: 15504 MD / 10820 TVD - Pilot hole: 11000
EOC/Prod Int: 391 FNL 818 FEL, Sec. 33, 19S, 34E

* New SHL: 220 FNL 880 FEL, Sec. 33, 19S, 34E *
BHL: 330 FSL 660 FEL, Sec. 33, 19S, 34E
New TD: 15364 MD / 10820 TVD - Pilot hole: 11000

OK CLC
08/29/12

Em Reviewed 8/29/12 CRW

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #146883 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Hobbs

Name (Printed/Typed) TERRI STATHEM

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/22/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Cody A. Lupton
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title MRS Date 08/29/12
Office CFO KZ

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

SEP 06 2012

Additional data for EC transaction #146883 that would not fit on the form

32. Additional remarks, continued

EOC/Prod Int: 403 FNL 869 FEL, Sec. 33, 19S, 34E

Please see attached amended C102 and directional plan for your review & approval.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED
OMB NO 1004-0135
Expires July 31, 2010

HOBBSOCD

SUNDRY NOTICES AND REPORTS ON WELLS

AUG 30 2012
Use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

RECEIVED

MIT IN TRIPLICATE - Other instructions on reverse side.

1 Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5 Lease Serial No NMNM94622
2. Name of Operator CIMAREX ENERGY COMPANY OF CO		6 If Indian, Allottee or Tribe Name
Contact TERRI STATHEM E-Mail: tstatthem@cimarex.com		7 If Unit or CA/Agreement, Name and/or No.
3a Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701	3b Phone No (include area code) Ph: 432-620-1936	8 Well Name and No CHAPARRAL 33 FEDERAL COM 3
4 Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T19S R34E NENE 200FNL 810FEL 32.623383 N Lat, 103.559263 W Lon		9 API Well No 30-025-40253-00-X1
		10 Field and Pool, or Exploratory QUAIL RIDGE Bone Spring S
		11 County or Parish, and State LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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Cimarex Energy Co. respectfully request approval to change the TD & SHL for the above well due to numerous pipelines and E lines in the area making it impossible to build the well pad at its current approved location:

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Approved BHL: 330 FSL 660 FEL, Sec. 33, 19S, 34E
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New SHL: 220 FNL 880 FEL, Sec. 33, 19S, 34E
BHL: 330 FSL 660 FEL, Sec. 33, 19S, 34E
New TD: 15364 MD / 10820 TVD - Pilot hole: 11000

14 I hereby certify that the foregoing is true and correct.	
Electronic Submission #146883 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by KURT SIMMONS on 08/27/2012 (12KMS1054SE)	
Name (Printed/Typed) TERRI STATHEM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/22/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By DON PETERSON	Title ACTING FIELD MANAGER	Date 08/29/2012
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional data for EC transaction #146883 that would not fit on the form

32. Additional remarks, continued

EOC/Prod Int: 403 FNL 869 FEL, Sec. 33, 19S, 34E

Please see attached amended C102 and directional plan for your review & approval.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1801 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED-REPORT

API Number 30-025-40253	Pool Code 50461	Pool Name Quail Ridge; Bone Spring, South
Property Code 38777	Property Name CHAPARRAL "33" FEDERAL COM	Well Number 3
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3699'

Surface Location

UL or lot No. A	Section 33	Township 19 S	Range 34 E	Lot Idn	Feet from the 220	North/South line NORTH	Feet from the 880	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. P	Section 33	Township 19 S	Range 34 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 660	East/West line EAST	County LEA
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Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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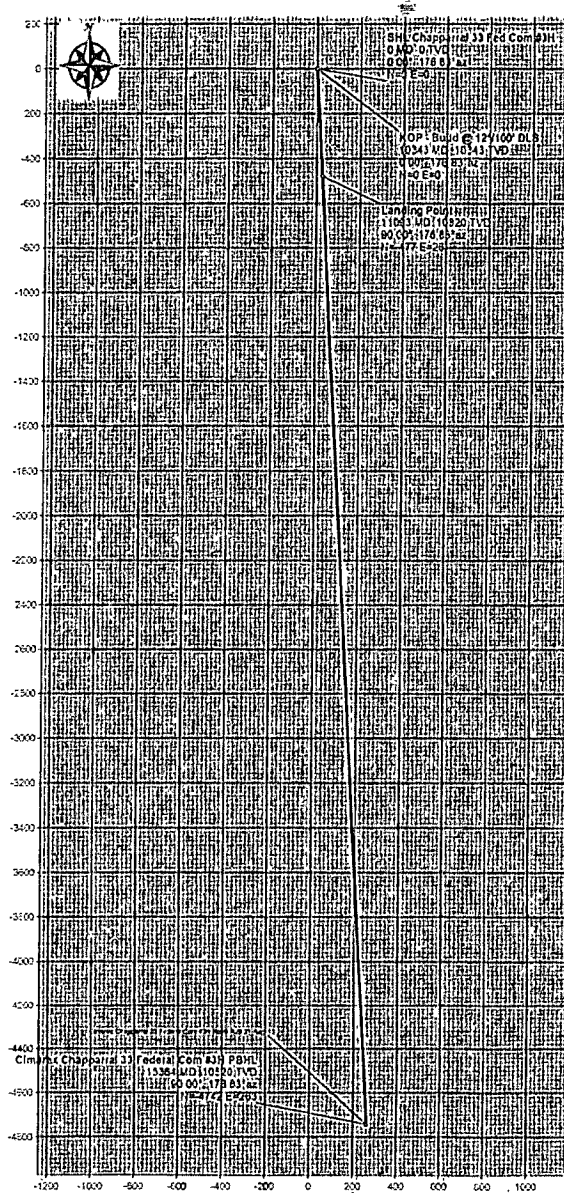
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SURFACE LOCATION Lat - N 32°37'24.27" Long - W 103°33'34.16" NMSPCE- N 591394.8 E 778585.2 (NAD-83) SHL & PP Bone Spring 220 FNL & 880 FEL EOC/Beg Prod Interval 423 FNL & 869 FEL BHL 330 FSL & 660 FEL PROPOSED BOTTOM HOLE LOCATION Lat - N 32°36'37.341" Long - W 103°33'31.501" NMSPCE- N 588653.2 E 778847.9 (NAD-83)	3700.4' 3700.1' 220' 880' 3695.3' 3699.1' 4749.8' NM-57285 NM-60789 NM-94622 330' 660'	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>Terri Stathem</i> Signature Date 8/22/12 Terri Stathem Printed Name tstathem@cimarex.com Email Address 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. August 20, 2012 Date Surveyed Signature of Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 27257
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Rev0

PATHFINDER
A Schlumberger Company

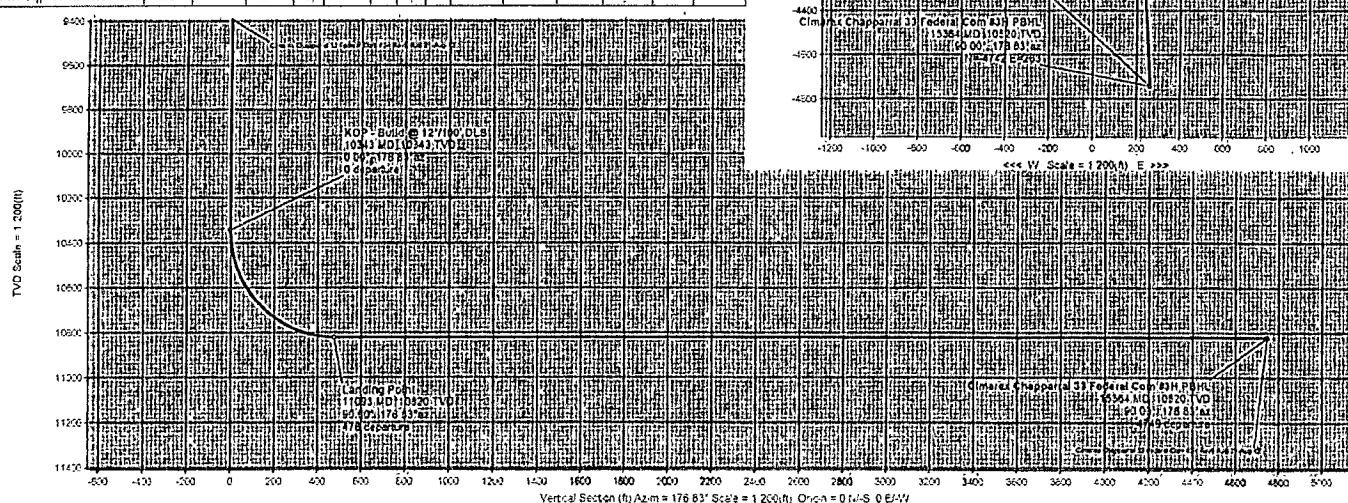
NAME Chapparral 33 Federal Com #3H		FIELD NM Lea County		SITE TITLE Scandill Eagle	
1) Age, Sex, Species 2) Date: 03/03/2011 3) Time: 6:45 PM 4) Location: 1896 5) Elev: 4102.5m		6) Sex: Male 7) Age: Juvenile 8) Species: Lc 9) Weight: 23.37g 10) Length: 178.0mm 11) Wing: 100.0mm 12) Tail: 78.0mm 13) Culmen: 12.0mm 14) Tarsus: 17.0mm 15) Middle Toe: 12.0mm 16) Bill: 12.0mm 17) Head: 47.0mm 18) Feet: 12.0mm		19) Band: 33F030311 20) Date: 03/03/2011 21) Time: 6:45 PM 22) Location: 1896 23) Elev: 4102.5m 24) Species: Lc 25) Weight: 23.37g 26) Length: 178.0mm 27) Wing: 100.0mm 28) Tail: 78.0mm 29) Culmen: 12.0mm 30) Tarsus: 17.0mm 31) Middle Toe: 12.0mm 32) Bill: 12.0mm 33) Head: 47.0mm 34) Feet: 12.0mm	



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>>> N
Scale = 1.200(11)
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<<< V/ Scale = 1200(A) E >>>

Coral Point															
Category	Single	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th
SEA Original Full Con Pk	6.5	6.2	17.5	6.2	20.4	6.0	6.9	6.2	6.12	14.2	6.13	14.2	7722.29	20.76	17.5
SEA Full Con Pk	15.45	6.2	17.5	16.25	22.5	6.0	6.9	6.2	6.12	14.2	6.13	14.2	7722.29	20.76	17.5
Sea Port	11.25	6.2	17.5	22.5	22.5	47.5	47.5	24.0	6.12	14.2	6.13	14.2	7722.29	20.76	17.5
Grand Central Full Con Pk	12.25	6.2	17.5	22.5	22.5	47.5	47.5	24.0	6.12	14.2	6.13	14.2	7722.29	20.76	17.5



Vertical Section (ft) Az. m = 176.83' Scale = 1/200 (ft) Origin = 014-S 0 E/W

Drawn By: R. S. Stevens
Date Created: August 21, 2012 03:00:00 PM
Checked By:
Checked Date:
Approved By:
Approved Date:



Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12 Proposal Report (Non-Def Plan)



Report Date:	August 21, 2012 - 03:38 PM	Survey / DLS Computation:	Minimum Curvature / Least Squares
Client:	Cimarex	Vertical Section Azimuth:	176.829 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Scandru Eagle / Cimarex Chapparral 33 Federal Com #3H	TVD Reference Datum:	RKB
Well:	Cimarex Chapparral 33 Federal Com #3H	TVD Reference Elevation:	3724.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3629.000 ft above MSL
UVN / API#:	Unknown / Unknown	Magnetic Declination:	7.565 °
Survey Name:	Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12	Total Field Strength:	48732.855 nT
Survey Date:	August 21, 2012	Magnetic Dip Angle:	60.487 °
Tort / AHD / DDI / ERD Ratio:	50.603 ° / 4749.004 ft / 5.783 / 0.439	Declination Date:	August 21, 2012
Coordinate Reference System:	NAD83 North American Datum, Eastern Zone US Feet	Magnetic Declination Model:	BGGM 2012
Location Lat / Long:	N 32° 37' 24" 27605", W 103° 33' 34" 16752"	North Reference:	Grid North
Location Grid N/E Y/X:	N 591394.000 RUS, E 779555.200 RUS	Grid Convergence Used:	0.417 °
CRS Grid Convergence Angle:	0.41720524 °	Total Corr Mag North to Grid North:	7.149 °
Grid Scale Factor:	0.9999741	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Chapparral 33 Fed Com #3H	0.00	0.00	176.83	0.00	-3724.00	0.00	0.00	0.00	N/A	591394.60	779555.20	N 32 37 24.28	W 103 33 34.17
KOP - Bld 12'100' DLS	10342.50	0.00	176.83	10342.50	6618.50	0.00	0.00	0.00	0.00	591394.60	779555.20	N 32 37 24.28	W 103 33 34.17
Land no Point	11692.56	93.00	176.83	10820.00	7659.00	477.00	-478.77	26.41	12.00	590916.04	779511.60	N 32 37 19.56	W 103 33 33.90
Cimarex Chapparral 33 Federal Com #3H PBHL	15364.05	93.00	176.83	10820.00	7656.00	4749.00	-4741.73	262.71	0.00	586652.20	779547.93	N 32 36 37.34	W 103 33 31.00

Survey Type Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 55.000% Confidence 2.7955 sigma
Survey Program

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	25.000	1/100.000	SLB_NSG+MSHOT-Depth Only	Original Borehole / Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12
	25.000	10300.000	1/100.000	SLB_NSG+MSHOT	Original Borehole / Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12
	10300.000	15364.059	1/100.000	SLB_MWD-SID	Original Borehole / Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12



**Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12 Proposal
Report 100' Interpolated
(Non-Def Plan)**



Report Date: August 21, 2012 - 03:33 PM
Client: Cimarex
Field: NW Lea County (NAD 83)
Structure / Slot: Standard Egg / Cimarex Chapparral 33 Federal Com #3H
Well: Cimarex Chapparral 33 Federal Com #3H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12
Survey Date: August 21, 2012
Tort / AHD / DDI / ERD Ratio: 50.003' / 4749.004 ft / 5.783 / 0.439
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 37' 24.2766" W 103° 33' 34.16752"
Location Grid N/E W/X: H 591394 600 FUS E 775555 200 FUS
CRS Grid Convergence Angle: 0.41726324°
Grid Scale Factor: 0.999741

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 176.825° (Grid North)
Vertical Section Origin: 0.000 R, 0.000 R
TVD Reference Datum: R/B
TVD Reference Elevation: 3724.000 ft above MSL
Seabed / Ground Elevation: 3559.000 ft above MSL
Magnetic Declination: 7.566°
Total Field Strength: 48732.655 nT
Magnetic Dip Angle: 69.497°
Declination Date: August 21, 2012
Magnetic Declination Model: BGM 2012
North Reference: Grid North
Grid Convergence Used: 0.417°
Total Corr Mag North-Grid North: 7.145°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (FUS)	Easting (FUS)	Latitude (N 32° 37' 24.28")	Longitude (W 103° 33' 34.17")
SHL Chapparral 33 Fed Com #3H	0.00	0.00	176.83	0.00	-3724.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	100.00	0.00	176.83	100.00	-3624.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	200.00	0.00	176.83	200.00	-3524.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	300.00	0.00	176.83	300.00	-3424.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	400.00	0.00	176.83	400.00	-3324.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	500.00	0.00	176.83	500.00	-3224.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	600.00	0.00	176.83	600.00	-3124.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	700.00	0.00	176.83	700.00	-3024.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	800.00	0.00	176.83	800.00	-2924.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
	900.00	0.00	176.83	900.00	-2824.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
1000.00	0.00	176.83	1000.00	-2724.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17	
1100.00	0.00	176.83	1100.00	-2624.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17	
1200.00	0.00	176.83	1200.00	-2524.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17	
1300.00	0.00	176.83	1300.00	-2424.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17	
1400.00	0.00	176.83	1400.00	-2324.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17	
1500.00	0.00	176.83	1500.00	-2224.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
1600.00	0.00	176.83	1600.00	-2124.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
1700.00	0.00	176.83	1700.00	-2024.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
1800.00	0.00	176.83	1800.00	-1924.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
1900.00	0.00	176.83	1900.00	-1824.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2000.00	0.00	176.83	2000.00	-1724.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2100.00	0.00	176.83	2100.00	-1624.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2200.00	0.00	176.83	2200.00	-1524.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2300.00	0.00	176.83	2300.00	-1424.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2400.00	0.00	176.83	2400.00	-1324.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2500.00	0.00	176.83	2500.00	-1224.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2600.00	0.00	176.83	2600.00	-1124.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2700.00	0.00	176.83	2700.00	-1024.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2800.00	0.00	176.83	2800.00	-924.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
2900.00	0.00	176.83	2900.00	-824.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3000.00	0.00	176.83	3000.00	-724.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3100.00	0.00	176.83	3100.00	-624.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3200.00	0.00	176.83	3200.00	-524.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3300.00	0.00	176.83	3300.00	-424.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3400.00	0.00	176.83	3400.00	-324.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3500.00	0.00	176.83	3500.00	-224.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3600.00	0.00	176.83	3600.00	-124.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3700.00	0.00	176.83	3700.00	-24.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3800.00	0.00	176.83	3800.00	76.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
3900.00	0.00	176.83	3900.00	176.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4000.00	0.00	176.83	4000.00	276.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4100.00	0.00	176.83	4100.00	376.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4200.00	0.00	176.83	4200.00	476.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4300.00	0.00	176.83	4300.00	576.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4400.00	0.00	176.83	4400.00	676.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4500.00	0.00	176.83	4500.00	776.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4600.00	0.00	176.83	4600.00	876.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4700.00	0.00	176.83	4700.00	976.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4800.00	0.00	176.83	4800.00	1076.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
4900.00	0.00	176.83	4900.00	1176.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5000.00	0.00	176.83	5000.00	1276.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5100.00	0.00	176.83	5100.00	1376.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5200.00	0.00	176.83	5200.00	1476.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5300.00	0.00	176.83	5300.00	1576.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5400.00	0.00	176.83	5400.00	1676.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5500.00	0.00	176.83	5500.00	1776.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5600.00	0.00	176.83	5600.00	1876.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5700.00	0.00	176.83	5700.00	1976.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5800.00	0.00	176.83	5800.00	2076.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
5900.00	0.00	176.83	5900.00	2176.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6000.00	0.00	176.83	6000.00	2276.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6100.00	0.00	176.83	6100.00	2376.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6200.00	0.00	176.83	6200.00	2476.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6300.00	0.00	176.83	6300.00	2576.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6400.00	0.00	176.83	6400.00	2676.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6500.00	0.00	176.83	6500.00	2776.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6600.00	0.00	176.83	6600.00	2876.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6700.00	0.00	176.83	6700.00	2976.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6800.00	0.00	176.83	6800.00	3076.00	0.00	0.00	0.00	0.00	0.00	591394.60	775555.20	N 32 37 24.28	W 103 33 34.17
6900.00	0.00	176.83	6900.00	3176.00	0								

Comments	MD (ft)	Incl (°)	Azlm Grd (°)	TVD (ft)	TVDSS (ft)	VSEC (s)	NS (ft)	EW (ft)	DLS (/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° '")	Longitude (W/E ° ° '")
	7200.00	0.00	176.83	7200.00	3476.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7300.00	0.00	176.83	7300.00	3576.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7400.00	0.00	176.83	7400.00	3676.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7500.00	0.00	176.83	7500.00	3776.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7600.00	0.00	176.83	7600.00	3876.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7700.00	0.00	176.83	7700.00	3976.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7800.00	0.00	176.83	7800.00	4076.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	7900.00	0.00	176.83	7900.00	4176.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8000.00	0.00	176.83	8000.00	4276.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8100.00	0.00	176.83	8100.00	4376.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8200.00	0.00	176.83	8200.00	4476.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8300.00	0.00	176.83	8300.00	4576.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8400.00	0.00	176.83	8400.00	4676.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8500.00	0.00	176.83	8500.00	4776.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8600.00	0.00	176.83	8600.00	4876.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8700.00	0.00	176.83	8700.00	4976.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8800.00	0.00	176.83	8800.00	5076.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	8900.00	0.00	176.83	8900.00	5176.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9000.00	0.00	176.83	9000.00	5276.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9100.00	0.00	176.83	9100.00	5376.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9200.00	0.00	176.83	9200.00	5476.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9300.00	0.00	176.83	9300.00	5576.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9400.00	0.00	176.83	9400.00	5676.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9500.00	0.00	176.83	9500.00	5776.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9600.00	0.00	176.83	9600.00	5876.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9700.00	0.00	176.83	9700.00	5976.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9800.00	0.00	176.83	9800.00	6076.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	9900.00	0.00	176.83	9900.00	6176.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	10000.00	0.00	176.83	10000.00	6276.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	10100.00	0.00	176.83	10100.00	6376.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	10200.00	0.00	176.83	10200.00	6476.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	10300.00	0.00	176.83	10300.00	6576.00	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
XOP - Build @ 12"/100" DLS	10342.50	0.00	176.83	10342.50	6616.50	0.00	0.00	0.00	0.00	591394.60	775585.20	N 32 37 24.28	W 103 33 34.17
	10400.00	6.50	176.83	10359.86	6675.65	3.46	-3.45	0.19	12.00	591591.35	775565.39	N 32 37 24.24	W 103 33 34.17
	10500.00	18.90	176.83	10497.16	6773.16	25.74	-25.70	1.42	12.00	591591.35	775565.62	N 32 37 24.02	W 103 33 34.15
	10600.00	30.40	176.83	10587.70	6863.70	67.76	-67.68	3.75	12.00	591227.14	775588.95	N 32 37 23.61	W 103 33 34.13
	10700.00	42.90	176.83	10667.52	6943.52	127.69	-127.50	7.06	12.00	591267.31	775592.26	N 32 37 23.01	W 103 33 34.10
	10800.00	54.90	176.83	10733.15	7009.15	202.91	-202.60	11.22	12.00	591192.21	775595.42	N 32 37 22.27	W 103 33 34.05
	10900.00	66.90	176.83	10781.70	7057.70	290.12	-289.68	16.04	12.00	591105.13	775601.24	N 32 37 21.41	W 103 33 34.00
	11000.00	78.89	176.83	10811.06	7087.06	385.52	-384.93	21.32	12.00	591009.68	775605.92	N 32 37 20.47	W 103 33 33.95
	11092.56	90.00	176.83	10820.00	7096.00	477.50	-476.77	26.41	12.00	590918.04	775611.60	N 32 37 19.56	W 103 33 33.90
	11100.00	90.00	176.83	10820.00	7096.00	484.94	-484.20	26.82	9.00	590910.61	775612.02	N 32 37 19.49	W 103 33 33.80
	11200.00	90.00	176.83	10820.00	7096.00	584.94	-584.65	32.35	9.00	590810.77	775617.55	N 32 37 18.50	W 103 33 33.84
	11300.00	90.00	176.83	10820.00	7096.00	684.94	-683.90	37.88	0.00	590710.92	775623.08	N 32 37 17.51	W 103 33 33.78
	11400.00	90.00	176.83	10820.00	7096.00	784.94	-783.74	43.41	0.00	590611.08	775628.61	N 32 37 16.52	W 103 33 33.73
	11500.00	90.00	176.83	10820.00	7096.00	884.94	-883.59	48.94	0.00	590511.23	775634.14	N 32 37 15.53	W 103 33 33.67
	11600.00	90.00	176.83	10820.00	7096.00	984.94	-983.44	54.47	0.00	590411.39	775639.67	N 32 37 14.54	W 103 33 33.61
	11700.00	90.00	176.83	10820.00	7096.00	1084.94	-1083.28	60.00	0.00	590311.55	775645.20	N 32 37 13.55	W 103 33 33.56
	11800.00	90.00	176.83	10820.00	7096.00	1184.94	-1183.13	65.53	0.00	590211.70	775650.73	N 32 37 12.57	W 103 33 33.50
	11900.00	90.00	176.83	10820.00	7096.00	1284.94	-1282.58	71.06	0.00	590111.86	775656.26	N 32 37 11.58	W 103 33 33.45
	12000.00	90.00	176.83	10820.00	7096.00	1384.94	-1382.83	76.59	0.00	590012.01	775661.79	N 32 37 10.59	W 103 33 33.39
	12100.00	90.00	176.83	10820.00	7096.00	1484.94	-1482.67	82.12	0.00	589912.17	775667.32	N 32 37 9.60	W 103 33 33.33
	12200.00	90.00	176.83	10820.00	7096.00	1584.94	-1582.52	87.65	0.00	589812.32	775672.85	N 32 37 8.61	W 103 33 33.28
	12300.00	90.00	176.83	10820.00	7096.00	1684.94	-1682.37	93.18	0.00	589712.48	775678.38	N 32 37 7.62	W 103 33 33.22
	12400.00	90.00	176.83	10820.00	7096.00	1784.94	-1782.21	98.71	0.00	589612.64	775683.91	N 32 37 6.64	W 103 33 33.17
	12500.00	90.00	176.83	10820.00	7096.00	1884.94	-1882.06	104.24	0.00	589512.79	775689.44	N 32 37 5.65	W 103 33 33.11
	12600.00	90.00	176.83	10820.00	7096.00	1984.94	-1981.91	109.78	0.00	589412.95	775694.97	N 32 37 4.66	W 103 33 33.05
	12700.00	90.00	176.83	10820.00	7096.00	2084.94	-2081.75	115.31	0.00	589313.10	775699.50	N 32 37 3.67	W 103 33 33.00
	12800.00	90.00	176.83	10820.00	7096.00	2184.94	-2181.60	120.84	0.00	589213.26	775705.03	N 32 37 2.68	W 103 33 32.94
	12900.00	90.00	176.83	10820.00	7096.00	2284.94	-2281.45	126.37	0.00	589113.42	775710.56	N 32 37 1.69	W 103 33 32.88
	13000.00	90.00	176.83	10820.00	7096.00	2384.94	-2381.29	131.90	0.00	589013.57	775716.09	N 32 37 0.71	W 103 33 32.83
	13100.00	90.00	176.83	10820.00	7096.00	2484.94	-2481.14	137.43	0.00	588913.73	775721.62	N 32 36 59.72	W 103 33 32.77
	13200.00	90.00	176.83	10820.00	7096.00	2584.94	-2580.99	142.97	0.00	588813.88	775727.15	N 32 36 58.73	W 103 33 32.72
	13300.00	90.00	176.83	10820.00	7096.00	2684.94	-2680.84	148.50	0.00	588714.04	775732.68	N 32 36 57.74	W 103 33 32.66
	13400.00	90.00	176.83	10820.00	7096.00	2784.94	-2780.69	154.03	0.00	588614.20	775738.21	N 32 36 56.75	W 103 33 32.60
	13500.00	90.00	176.83	10820.00	7096.00	2884.94	-2880.53	159.56	0.00	588514.35	775743.74	N 32 36 55.76	W 103 33 32.55
	13600.00	90.00	176.83	10820.00	7096.00	2984.94	-2980.38	165.10	0.00	588414.51	775749.27	N 32 36 54.78	W 103 33 32.49
	13700.00	90.00	176.83	10820.00	7096.00	3084.94	-3080.22	170.63	0.00	588314.66	775754.80	N 32 36 53.79	W 103 33 32.43
	13800.00	90.00	176.83	10820.00	7096.00	3184.94	-3180.07	176.16	0.00	588214.82	775760.33	N 32 36 52.80	W 103 33 32.38
	13900.00	90.00	176.83	10820.00	7096.00	3284.94	-3279.92	181.69	0.00	588114.98	775765.86	N 32 36 51.81	W 103 33 32.32
	14000.00	90.00	176.83	10820.00	7096.00	3384.94	-3379.76	187.23	0.00	588015.13	775771.39	N 32 36 50.82	W 103 33 32.27
	14100.00	90.00	176.83	10820.00	7096.00	3484.94	-3479.61	192.76</					

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	0 000		25 000	1/100 000	SLB_NSG+MSHOT-Depth Only					Original Borehole / Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12			
	25 000		10300 000	1/100 000	SLB_NSG+MSHOT					Original Borehole / Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12			
	10300 000		15364 050	1/100 000	SLB_MWD-STD					Original Borehole / Cimarex Chapparral 33 Federal Com #3H Rev0 RJS 21-Aug-12			