

HOBBS OGD

Form C-102

Revised July 16, 2010

JUN 12 2013

Submit one copy to appropriate District Office

RECEIVED

DISTRICT I

1020 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025- 41210	Pool Code 55610	Pool Name Scharb; Bone Spring
Property Code 39527	Property Name QUAIL 11 STATE	Well Number 4H
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3974'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	19 S	34 E		330	SOUTH	1980	WEST	LEA

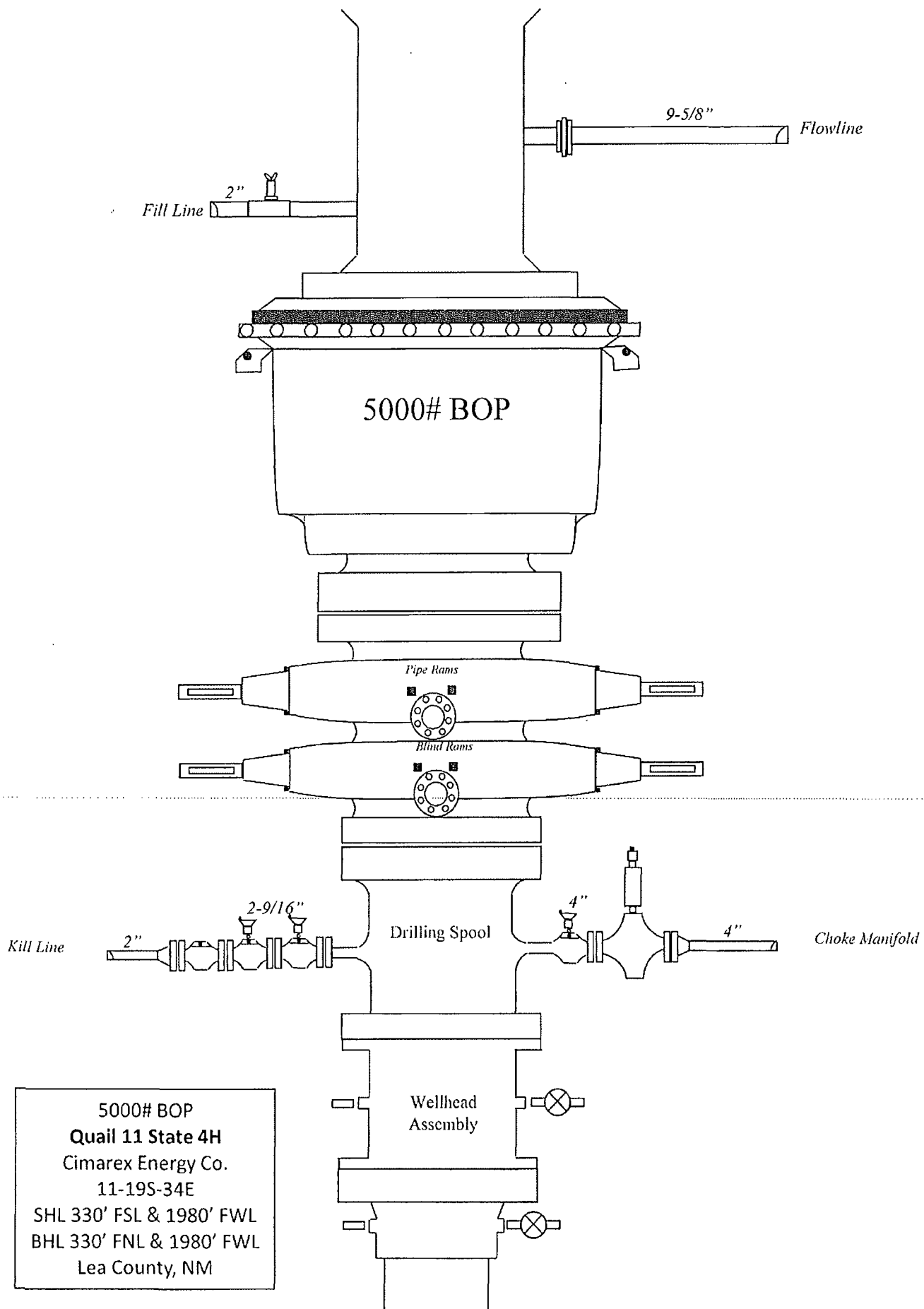
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	11	19 S	34 E		330	NORTH	1980	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	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

N: 612782.4 E: 785555.5 1980' PROPOSED BOTTOM HOLE LOCATION Lat - N 32°40'52.25" Long - W 103°31'58.33" NMSPC- N 612472.7 E 787538.0 (NAD-83)	N: 612836.2 E: 790840.3	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>Michelle Chappell</i> 06/10/2013 Signature Date Printed Name mchappell@cimarex.com Email Address
N: 610143.5 E: 785579.1 4619.1' SURFACE LOCATION Lat - N 32°40'06.55" Long - W 103°31'59.24" NMSPC- N 607854.7 E 787579.0 (NAD-83)	N: 610195.7 E: 790864.0	
1980' N: 607505.4 E: 785603.3	N: 607531.2 E: 788244.5	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. <i>Gary L. Jones</i> Date Surveyed Signature of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28792

JUN 13 2013

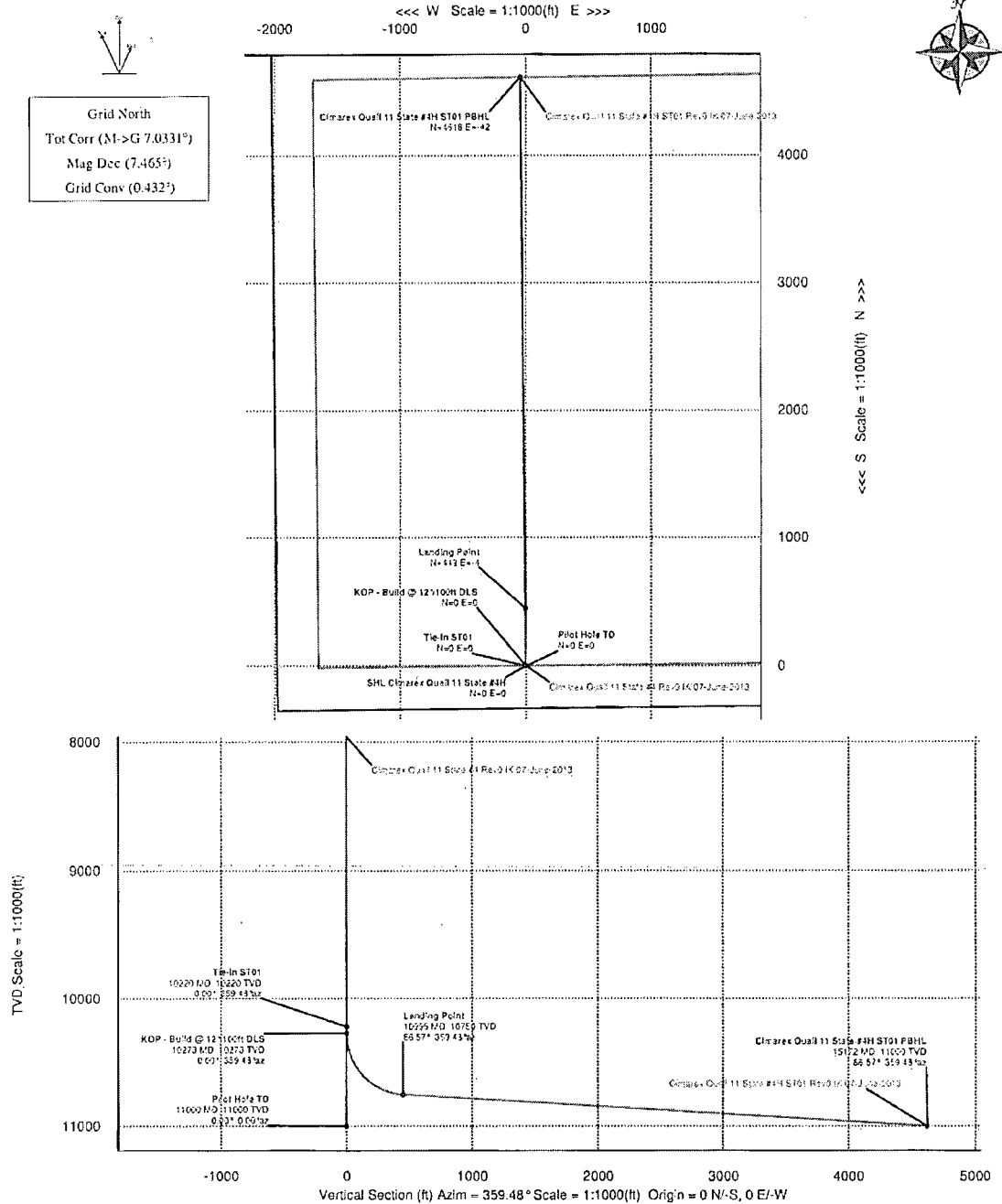




Cimarex

PATHFINDER
A Schlumberger Company

WELL	Quail 11 State #4H ST01	FIELD	NM Lea County	STRUCTURE	TBD
Major Pathfinder Area	EQ045012	Cr	6°51'N Mag Dec 7.465°	Dr	June 24, 2013 650428.7
Surface Lat	N 38.42° E 392	Long	W 113.31° E 248	North	62554.70 E 5 77373.20 N 8
Altitude	62554.70 E 5 77373.20 N 8	Scale	Factor 0.500000	Altitude	Quail 11 State #4H ST01 Rev 9/16/07 June 2013
Pathfinder	Quail 11 State #4H ST01 Rev 9/16/07 June 2013	TVD Ref	SLC State #4H ST01 Rev 9/16/07 June 2013	Scale	Factor 0.500000



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Tie-in ST01	10220.00	0.00	359.48	10220.00	0.00	0.00	0.00	
KOP - Build @ 12°/100ft DLS	10273.30	0.00	359.48	10273.30	0.00	0.00	0.00	0.00
Landing Point	10994.85	86.57	359.48	10750.00	448.98	448.97	-4.07	12.00
Cimarex Quail 11 State #4H ST01 PBHL	15171.66	86.57	359.48	11000.00	4618.30	4618.11	-41.90	0.00



Cimarex Quail 11 State #4H ST01 Rev0 IK 07-June-2013 Proposal Report



(Non-Def Plan)

Report Date: June 07, 2013 - 03:52 AM
Client: Cimarex
Field: NM Lea County (H4D 83)
Structure / Slot: TBD / Cimarex Quail 11 State #4H
Well: Cimarex Quail 11 State #4H
Borehole: ST01
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Quail 11 State #4H ST01 Rev0 IK 07-June-2013
Survey Date: June 06, 2013
Tort / AHD / DDI / ERD Ratio: 66.573' / 4618.298 ft / 5.742 / 0.420
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 40' 6.55179", W 103° 31' 59.24314"
Location Grid N/E Y/X: N 607654 700 NUS, E 787579 500 NUS
CRS Grid Convergence Angle: 0.4320°
Grid Scale Factor: 0.99137653

Survey / DLS Computation: Minimum Curvature / Cubic S
Vertical Section Azimuth: 359.450° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Ground Level
TVD Reference Elevation: 3974.000 ft above MSL
Seabed / Ground Elevation: 3974.000 ft above MSL
Magnetic Declination: 7.455°
Total Gravity Field Strength: 981.4697 m/s² (9.80665 Based)
Total Magnetic Field Strength: 48260.224 nT
Magnetic Dip Angle: 60.518°
Declination Date: June 06, 2013
Magnetic Declination Model: BGM 2012
North Reference: Grid North
Grid Convergence Used: 0.4320°
Total Corr Mag North to Grid North: 7.0331°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (NUS)	Easting (EUS)	Latitude (NUS ° ' ")	Longitude (EW ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
SHL Cimarex Quail 11 State well	0.00	0.00	0.00	0.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	N/A
	100.00	0.00	359.45	100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	200.00	0.00	359.45	200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	300.00	0.00	359.45	300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	400.00	0.00	359.45	400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	500.00	0.00	359.45	500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	600.00	0.00	359.45	600.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	700.00	0.00	359.45	700.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	800.00	0.00	359.45	800.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	900.00	0.00	359.45	900.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1000.00	0.00	359.45	1000.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1100.00	0.00	359.45	1100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1200.00	0.00	359.45	1200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1300.00	0.00	359.45	1300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1400.00	0.00	359.45	1400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1500.00	0.00	359.45	1500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1600.00	0.00	359.45	1600.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1700.00	0.00	359.45	1700.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1800.00	0.00	359.45	1800.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	1900.00	0.00	359.45	1900.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2000.00	0.00	359.45	2000.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2100.00	0.00	359.45	2100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2200.00	0.00	359.45	2200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2300.00	0.00	359.45	2300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2400.00	0.00	359.45	2400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2500.00	0.00	359.45	2500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2600.00	0.00	359.45	2600.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2700.00	0.00	359.45	2700.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2800.00	0.00	359.45	2800.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	2900.00	0.00	359.45	2900.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3000.00	0.00	359.45	3000.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3100.00	0.00	359.45	3100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3200.00	0.00	359.45	3200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3300.00	0.00	359.45	3300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3400.00	0.00	359.45	3400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3500.00	0.00	359.45	3500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3600.00	0.00	359.45	3600.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3700.00	0.00	359.45	3700.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3800.00	0.00	359.45	3800.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	3900.00	0.00	359.45	3900.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4000.00	0.00	359.45	4000.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4100.00	0.00	359.45	4100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4200.00	0.00	359.45	4200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4300.00	0.00	359.45	4300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4400.00	0.00	359.45	4400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4500.00	0.00	359.45	4500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4600.00	0.00	359.45	4600.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4700.00	0.00	359.45	4700.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4800.00	0.00	359.45	4800.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	4900.00	0.00	359.45	4900.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5000.00	0.00	359.45	5000.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5100.00	0.00	359.45	5100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5200.00	0.00	359.45	5200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5300.00	0.00	359.45	5300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5400.00	0.00	359.45	5400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5500.00	0.00	359.45	5500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5600.00	0.00	359.45	5600.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5700.00	0.00	359.45	5700.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5800.00	0.00	359.45	5800.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	5900.00	0.00	359.45	5900.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	6000.00	0.00	359.45	6000.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	6100.00	0.00	359.45	6100.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	6200.00	0.00	359.45	6200.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	6300.00	0.00	359.45	6300.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	6400.00	0.00	359.45	6400.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00	0.00	0.00
	6500.00	0.00	359.45	6500.00	0.00	0.00	0.00	607654.70	787579.50	N 32.40 6.55	W 103.31 59.24	0.00		

Comments	I/D (N)	Incl (°)	Azim Grid (°)	TVD (N)	VSEC (N)	NS (N)	EW (N)	Northing (NUS)	Easting (NUS)	Latitude (NUS ° ' '')	Longitude (EW ° ' '')	Closure (N)	Closure Azimuth (°)	DLS (1/100N)
	7100.00	0.00	359.48	7100.00	0.00	0.00	0.00	607854.70	787578.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7200.00	0.00	359.48	7200.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7300.00	0.00	359.48	7300.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7400.00	0.00	359.48	7400.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7500.00	0.00	359.48	7500.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7600.00	0.00	359.48	7600.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7700.00	0.00	359.48	7700.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7800.00	0.00	359.48	7800.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	7900.00	0.00	359.48	7900.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8000.00	0.00	359.48	8000.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8100.00	0.00	359.48	8100.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8200.00	0.00	359.48	8200.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8300.00	0.00	359.48	8300.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8400.00	0.00	359.48	8400.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8500.00	0.00	359.48	8500.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8600.00	0.00	359.48	8600.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8700.00	0.00	359.48	8700.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8800.00	0.00	359.48	8800.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	8900.00	0.00	359.48	8900.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9000.00	0.00	359.48	9000.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9100.00	0.00	359.48	9100.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9200.00	0.00	359.48	9200.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9300.00	0.00	359.48	9300.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9400.00	0.00	359.48	9400.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9500.00	0.00	359.48	9500.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9600.00	0.00	359.48	9600.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9700.00	0.00	359.48	9700.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9800.00	0.00	359.48	9800.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	9900.00	0.00	359.48	9900.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	10000.00	0.00	359.48	10000.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	10100.00	0.00	359.48	10100.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	10200.00	0.00	359.48	10200.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	10200.00	0.00	359.48	10200.00	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	10273.30	0.00	359.48	10273.30	0.00	0.00	0.00	607854.70	787579.60	N 32 40 6.55 W 103 31 59.24		0.00	0.00	0.00
	10300.00	3.20	359.48	10299.99	0.75	0.75	-0.01	607855.45	787579.89	N 32 40 6.56 W 103 31 59.24		0.75	359.48	12.00
	10400.00	15.20	359.48	10398.52	18.71	18.71	-0.15	607871.41	787579.75	N 32 40 6.72 W 103 31 59.24		18.71	359.48	12.00
	10500.00	27.20	359.48	10431.58	52.81	52.81	-0.48	607867.59	787579.42	N 32 40 7.07 W 103 31 59.24		52.81	359.48	12.00
	10600.00	39.20	359.48	10575.11	107.46	107.46	-0.98	607862.15	787578.92	N 32 40 7.62 W 103 31 59.25		107.46	359.48	12.00
	10700.00	51.19	359.48	10645.45	178.28	178.28	-1.62	608032.97	787578.28	N 32 40 8.32 W 103 31 59.25		178.28	359.48	12.00
	10800.00	63.19	359.48	10599.53	262.18	262.17	-2.38	608118.68	787577.52	N 32 40 8.15 W 103 31 59.25		262.18	359.48	12.00
	10900.00	75.19	359.48	10734.59	355.48	355.47	-3.23	608210.16	787576.87	N 32 40 10.07 W 103 31 59.25		355.48	359.48	12.00
	10994.85	68.57	359.48	10750.00	448.58	448.57	-4.07	608303.65	787575.83	N 32 40 10.99 W 103 31 59.25		448.58	359.48	12.00
	11000.00	68.57	359.48	10750.31	454.12	454.10	-4.12	608308.79	787575.78	N 32 40 11.05 W 103 31 59.25		454.12	359.48	12.00
	11100.00	68.57	359.48	10756.29	553.94	553.92	-5.03	608408.61	787574.87	N 32 40 12.03 W 103 31 59.25		553.94	359.48	0.00
	11200.00	68.57	359.48	10762.27	653.76	653.74	-5.93	608508.42	787573.97	N 32 40 13.02 W 103 31 59.25		653.76	359.48	0.00
	11300.00	68.57	359.48	10768.26	753.58	753.55	-6.84	608608.23	787573.06	N 32 40 14.01 W 103 31 59.26		753.58	359.48	0.00
	11400.00	68.57	359.48	10774.24	853.40	853.37	-7.75	608708.05	787572.16	N 32 40 15.00 W 103 31 59.26		853.40	359.48	0.00
	11500.00	68.57	359.48	10780.22	953.23	953.19	-8.65	608807.86	787571.25	N 32 40 15.98 W 103 31 59.26		953.23	359.48	0.00
	11600.00	68.57	359.48	10786.21	1053.05	1053.00	-9.55	608907.68	787570.34	N 32 40 16.97 W 103 31 59.26		1053.05	359.48	0.00
	11700.00	68.57	359.48	10792.19	1152.87	1152.82	-10.46	609007.49	787569.44	N 32 40 17.96 W 103 31 59.26		1152.87	359.48	0.00
	11800.00	68.57	359.48	10798.18	1252.69	1252.64	-11.37	609107.31	787568.53	N 32 40 18.95 W 103 31 59.27		1252.69	359.48	0.00
	11900.00	68.57	359.48	10804.16	1352.51	1352.45	-12.27	609207.12	787567.63	N 32 40 19.93 W 103 31 59.27		1352.51	359.48	0.00
	12000.00	68.57	359.48	10810.14	1452.33	1452.27	-13.18	609306.94	787566.72	N 32 40 20.92 W 103 31 59.27		1452.33	359.48	0.00
	12100.00	68.57	359.48	10816.13	1552.15	1552.09	-14.09	609406.75	787565.81	N 32 40 21.91 W 103 31 59.27		1552.15	359.48	0.00
	12200.00	68.57	359.48	10822.11	1651.97	1651.90	-14.99	609506.56	787564.91	N 32 40 22.90 W 103 31 59.27		1651.97	359.48	0.00
	12300.00	68.57	359.48	10828.10	1751.79	1751.72	-15.90	609606.38	787564.00	N 32 40 23.88 W 103 31 59.27		1751.79	359.48	0.00
	12400.00	68.57	359.48	10834.08	1851.61	1851.54	-16.80	609706.19	787563.10	N 32 40 24.87 W 103 31 59.28		1851.61	359.48	0.00
	12500.00	68.57	359.48	10840.07	1951.43	1951.37	-17.71	609806.01	787562.19	N 32 40 25.86 W 103 31 59.28		1951.43	359.48	0.00
	12600.00	68.57	359.48	10846.05	2051.25	2051.17	-18.61	609905.82	787561.29	N 32 40 26.85 W 103 31 59.28		2051.25	359.48	0.00
	12700.00	68.57	359.48	10852.03	2151.07	2150.99	-19.52	610005.64	787560.38	N 32 40 27.84 W 103 31 59.28		2151.07	359.48	0.00
	12800.00	68.57	359.48	10858.02	2250.89	2250.80	-20.43	610105.45	787559.47	N 32 40 28.82 W 103 31 59.28		2250.89	359.48	0.00
	12900.00	68.57	359.48	10864.01	2350.72	2350.62	-21.33	610205.26	787558.56	N 32 40 29.81 W 103 31 59.29		2350.72	359.48	0.00
	13000.00	68.57	359.48	10869.99	2450.54	2450.44	-22.24	610305.08	787557.66	N 32 40 30.80 W 103 31 59.29		2450.54	359.48	0.00
	13100.00	68.57	359.48	10875.98	2550.36	2550.25	-23.14	610404.89	787556.76	N 32 40 31.78 W 103 31 59.29		2550.36	359.48	0.00
	13200.00	68.57	359.48	10881.98	2650.18	2650.07	-24.05	610504.71	787555.85	N 32 40 32.77 W 103 31 59.29		2650.18	359.48	0.00
	13300.00	68.57	359.48	10887.95	2750.00	2749.83	-24.95	610604.52	787554.95	N 32 40 33.76 W 103 31 59.29		2750.00	359.48	0.00
	13400.00	68.57	359.48	10893.93	2849.82	2849.70	-25.86	610704.34	787554.04	N 32 40 34.75 W 103 31 59.29		2849.82	359.48	0.00
	13500.00	68.57	359.48	10899.92	2949.64	2949.52	-26.77	610804.15	787553.14	N 32 40 35.74 W 103 31 59.30		2949.64	359.48	0.00
	13600.00	68.57	359.48	10905.90	3049.45	3049.34	-27.67	610903.96	787552.23	N 32 40 36.72 W 103 31				

Comments	MD (ft)	Incl [°]	Azim Grid [°]	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)	Closure (ft)	Closure Azimuth [°]	DLS (°/100ft)
Description	MD From (ft)		MD To (ft)	EDU Freq (ft)		Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey					
	0.000		10220.000		1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Quail 11 State #4 Rev0 IK 07-June-2013					
	10220.000		15171.657		1/100.000	30.000	30.000	SLB_MWD-STD	#4H ST01 Rev0 IK 07-June-2013					