

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-045-35502
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator MERRION OIL & GAS CORPORATION		6. State Oil & Gas Lease No.
3. Address of Operator 610 REILLY AVE FARMINGTON, NM 87401		7. Lease Name or Unit Agreement Name CHIMICHANGA
4. Well Location Unit Letter <u>L</u> : <u>1980</u> feet from the <u>SOUTH</u> line and <u>251</u> feet from the <u>WEST</u> line Section <u>36</u> Township <u>24N</u> Range <u>9W</u> NMPM County <u>SAN JUAN</u>		8. Well Number #3H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6839'		9. OGRID Number 14634
		10. Pool name or Wildcat BASIN MANCOS

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL. ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Merrion Oil & Gas proposed to change the surface and bottom hole location of the above mentioned well as follows:

New Well Location:

SL - H-36-T24N-R9W 2000' FNL & 200' FEL 36.27257, -107.73280

BH- L-36-T24N-R9W 1980' FSL & 280' FWL 36.26885, -107.74907

See attached revised C102, APD, operations plan & drilling plan

Hold C104
for Directional Survey
and "As Drilled" plat

Spud Date:

Rig Release Date:

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

SIGNATURE Philana Thompson TITLE Regulatory Compliance Spec DATE 7/28/14

Type or print name Philana Thompson E-mail address: pthompson@merrion.bz PHONE: 505-486-1171

For State Use Only

APPROVED BY: Charles H. Perry TITLE SUPERVISOR DISTRICT #3 DATE AUG 06 2014
Conditions of Approval (if any): AV

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

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811 S. First Street, Artesia, NM 88210
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District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

OIL CONSERVATION DIVISION DISTRICT

JUL 29 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-35502	Pool Code 97232	Pool Name BASIN MANCOS
Property Code	Property Name CHIMICHANGA	Well Number 3H
OGRI No. 14634	Operator Name MERRION OIL & GAS CORPORATION	Elevation 6839'

10 Surface Location

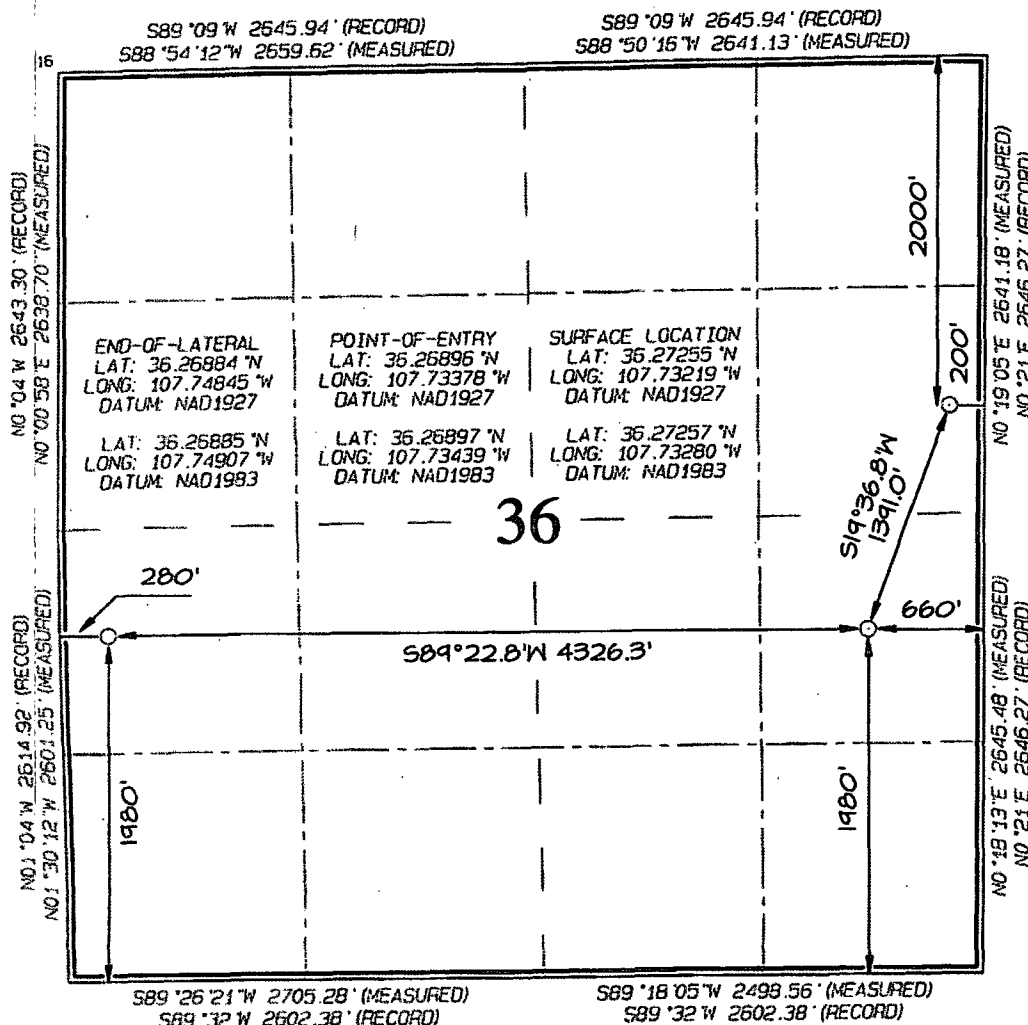
UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
H	36	24N	9W		2000	NORTH	200	EAST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10n	Feet from the	North/South line	Feet from the	East/West line	County
L	36	24N	9W		1980	SOUTH	280	WEST	SAN JUAN

Dedicated Acres 640.0 Acres Entire Section 36	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



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.

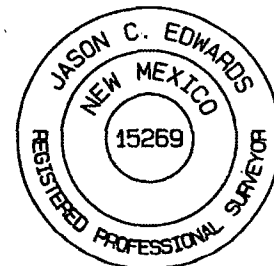
Signature: *Philana Thompson* Date: *6/24/14*
Printed Name: *Philana Thompson*
E-mail Address: *pthompson@merrion-62*

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 Revised: JUNE 19, 2014
Date of Survey: MARCH 3, 2014

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

7/29/2014



OPERATIONS PLAN

WELL NAME.....Chimichanga #3H
JOB TYPE.....HZ Mancos Shale
PREPARED BY.....Ryan Davis

GENERAL INFORMATION

Surface Location S-T-R	2000'' FNL, 200' FEL (H) Sec. 36-T24N-R09W
Point of Penetration S-T-R	1980' FSL, 660' FEL (I) Sec. 36 T24N-R09W
Bottom Hole Location S-T-R	1980' FSL, 280' FWL (L) Sec. 36 T24N-R09W
County, State	San Juan, New Mexico
Elevations	6839' GL
Total Depth	10,007' +/- (MD); 5,170' (TVD)
Formation Objective	Gallup- Mancos Shale

1) ESTIMATED FORMATION TOPS

Note: *All depths to be adjusted based on Chipsnsalsa 2H pilot hole tops.*

San Jose	Surface
Kirtland	1270' (TVD)
Fruitland Fm	1418' (TVD)
Pictured Cliffs SS	1640' (TVD)
Chacra	2013' (TVD)
KOP	2500' (TVD)
Cliff House	3119' (TVD)
Menefee	3170' (TVD)
Point Lookout	4080' (TVD)
Mancos	4270' (TVD)
Gallup	5115' (TVD)
Target Zone	5170' (TVD)

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DRILLING PLAN

Surface: 12-1/4" wellbore will be drilled to ~ 500' with a fresh water mud system, LSND

Intermediate: 8-3/4" wellbore will be drilled to ~ 2500' (TVD), will kick off with build angle of 10 deg/100' to 27.24 degrees inclination and at 181.5 degrees azimuth. Will hold angle and azimuth to 4917 MD/4669 (TVD), begin build and turn of 10 deg/100' and land in the Lower Gallup at 5807.4 MD/5170 (TVD) at 90 degrees inclination and 269.38 degrees azimuth. All the 8-3/4" hole will be drilled with a fresh water mud system, LSND.

Production: 6-1/8" wellbore will be drilled to ~ 10007.4 MD/5170 (TVD) with an oil based mud system. Mud density is expected to range from 8.0 to 8.4 ppg.

2) ANTICIPATED DEPTHS OF PROSPECTIVE OIL GAS AND OTHER HYDROCARBONS

Primary objective is the Lower Gallup formation encountered first at 5170' TVD at 7" casing point

See formation listings in #1 above for additional zones of interest.

3) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT:

Wellhead Equipment 3,000 PSI System (See Exhibit 1)

1. 9 5/8" slip-on / welded x 11" 3,000 psi casing head.
2. One 11" 3,000 psi WP double-ram preventer with one (1) set of blind rams on top & one (1) set of pipe rams on bottom complete with hand wheels and extension arms.
3. The choke and kill lines will be connected to outlets between the bottom and top rams, utilizing either the ram body outlet or a drilling spool with side outlets for 2" kill line and minimum 3" choke line
4. One 11" x 3,000 psi WP Hydril GK (or equivalent) annular preventer.
5. Accumulator - Four Station Koomey (or equivalent) 120 gallon closing unit with remote, backup. The accumulator shall have sufficient capacity to open the hydraulically-controlled gate valve and close all rams plus the annular preventer (if needed), with a 50% safety factor and retain a minimum of 200 psi above the precharge on the closing manifold without the use of the closing unit pumps. The reservoir capacity shall be double the usable accumulator capacity, and the fluid level shall be maintained at the manufacturer's recommendations.
6. The BOP system shall have two (2) independent power sources (electric and air) available for powering the closing unit pumps. Sufficient nitrogen bottles are suitable as a backup power source only, and shall be recharged when the pressure falls below manufacturer's specification.
7. A valve shall be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

All BOP equipment will be hydraulically operated with controls accessible both on the rig floor.

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The wellhead BOP equipment will be nipped-up on the 9-5/8" x 11" 3,000 psi WP casing head prior to drilling out from under surface casing. All ram preventers and related equipment will be tested to

3,000 psi for 10 minutes. Surface casing will be tested to 70% of internal yield pressure. All preventers and surface casing will be tested before drilling out of surface casing. BOP equipment will be tested every 14 days, after any repairs are made to the BOP equipment, and after the BOP equipment is subjected to pressure. Annular preventers will be functionally operated at least once per week. Pipe rams will be activated daily and blind rams shall be activated each trip or at least weekly. The New Mexico Oil & Gas Conservation Commission and the BLM will be notified 24 hours in advance of testing of BOPE

4) PROPOSED BIT AND CASING PROGRAM

CASING, TUBING & CASING EQUIPMENT

String	Start Depth	End Depth	Wellbore	Size	Wt	Grade
Surface	0	500'	12-1/4"	9-5/8"	36 lb/ft	J-55 LT&C
Intermediate MVD	0'	5,807"	8-3/4"	7"	23 lb/ft	N-80 LT&C
Production MVD	5,657'	10,007"	6-1/8"	4-1/2"	11.6 lb/ft	P-110 LT&C

9-5/8" Surface Casing: Run on 9-5/8" casing from bottom, up – LTC float shoe, thread locked. One joint (45') of 9-5/8" 36#/ft, J-55 LTC R-3 casing, thread locked. LTC float collar, thread locked top and bottom. Run to surface w/ 9-5/8" casing doped with lead free dope. Centralize w/ ONE bow spring above shoe, ONE bow spring on shoe joint(use lock ring) & ONE across each collar on every joint to surface. (~13 total centralizers)

7" Intermediate Casing: Run on 7", 23#, N-80 casing from bottom, up – 7" LTC Halliburton auto-fill float shoe, thread locked. One joint (45') of 7" 23#, N-80 LTC R-3 casing, thread locked. LTC float collar for DV tool, thread locked top and bottom. Run to surface with 7" 23# N-80 LTC casing doped with lead free dope. Centralize w/ ONE bow spring above shoe, ONE bow spring on shoe joint (use lock ring), ONE on every collar to KOP (2500'), then every other joint to DV tool at 4500'. Place bow spring centralizer on joint directly above and below DV tool. Then alternate bow spring centralizer and turbolizer on every 3rd jt to 2700'. (~ 40 centralizers and ~ 8 turbolizers).

4-1/2" Production Liner: Run on 4-1/2", 11.6, P-110, casing from bottom, up – 4.5" double valve float shoe, one joint of 4-1/2" casing, landing collar, 4-1/2" casing. Run 4-1/2" casing from top of RSI sleeve system on liner hanger to 150' inside 7" casing shoe, doped w/ BOL 2000 thread dope.

Casing strings will be tested to .22 psi per foot of the casing string length or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

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Minimum casing design factors used:	Collapse:	1.125
	Burst:	1.0
	Jt. Strength:	1.60

5) PROPOSED CEMENTING PROGRAM

Note: Actual slurry and volumes may vary based on actual conditions while drilling (See Cement Program for complete details)

9-5/8" Surface Casing: Circulate hole at least 1-1/2 hole volumes of mud prior to cementing.

Pre-flush with 5 bbls H₂O + 20 bbls Mud Flush + 5 bbls H₂O. Mix & pump 195 sks 50/50 Poz w/ 1/4 #/sk Flocele and 5 #/sk Gilsonite @ 13.5 ppg; 1.81 ft³/sk yield. Displace with mud. WOC 4 hours before slacking off and minimum of 12 hours before drilling out. *Proposed Usage: 195 sacks cement.*

7" Intermediate Casing: Set DV tool at ~ 4500' MD. Start first stage from 5807' – 4500'. Second stage to be pumped from 4500' to surface. Circulate hole at least 1-1/2 hole volumes of mud.

First Stage: Pre-flush with 10 bbls water based spacer. Lead with 150 sacks HALCEM™ w/ 0.30% HR-5, 5lbm Kol-Seal, 0.125 lbm Poly-E-Flake @ 12.4 ppg and 1.897 yield. Calculated volume 278 ft³; 150 sacks at 100% excess. Tail in w/ 100 sks LIFECER™, 0.20% Halad®-9 and 0.1250 lbm Poly-E-Flake @ 15.8 ppg and 1.147 yield. Calculated volume 114.7 ft³; 100 sacks at 100% excess. Displace casing volume to float collar with water followed by viscous pill and mud. Drop ball to open stage tool, open stage tool and circulate one while WOC 4 hours. *Proposed Usage: 150 sacks lead, 100 sacks tail cement.*

Second Stage: Pre-flush with 10 bbls water based spacer. Lead w/ 620 sks HALCEM™ w/ 5 lbm Kol-Seal and 0.1250 lbm Poly-E-Flake @ 12.4 ppg and 1.895 ft³/sk yield. Calculated volume 1171 ft³; 620 sacks at 100% excess. Tail in w/ 100 sks LIFECER™ w/ 0.20% Halad®-9 @ 15.8 ppg and 1.147 ft³/sk yield. Calculated volume 114.7 ft³; 100 sks at 100% excess. Displace with mud. WOC 4 hours before slacking off and minimum of 18 hours before drilling out. *Proposed Usage: 620 sacks lead, 100 sacks tail cement.*

Set slips with full string weight on all cement jobs. Try to reciprocate pipe, if possible throughout all cement jobs.

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4-1/2" Production Liner:

First Stage: 10 bbl (56 cu-ft) Fr Water Spacer. *Second Stage:* 40 bbl 9.5 ppg (224.6 cu-ft) Water Based Treated Spacer III +30.90 lbm/bbl BAROID 41. *Third Stage:* 10 bbl Fr Water Spacer. *Fourth Stage:* Lead Cement: 40 sks of ELASTISEAL + 0.2% Versaset + 0.15% Halad -766 + Halad®-344, Yield 1.43 cu ft/sk, 13.0 ppg, (40 sks/ 57.3 cu ft/ 10.2 bbls) *Fifth Stage:* Foamed Lead Cement: 200 sks ELASTISEAL™ + 0.2% Versaset + 0.15% HALAD-766 + 2.5 gal Chem-Foamer 760 + 0.20% Halad®-344, Yield 1.458 cu-ft/sk. 13.0 ppg (200 sx / 292 cu-ft. / 53.1 bbls.). *Sixth Stage:* Tail Cement : 100 sx. ELASTISEAL™ + 0.2% Versaset + 0.15% HALAD-766 + .05% SA-1015, Yield 1.292 cu ft/sk, 13.5 ppg (100 sx/ /129 cu ft. /23 bbls) *Seventh Stage:* 20 bbl Water Based MMCR Spacer + 0.5 gal/bbl Micro Matrix Retarder, 8.34 ppg Displace w/ +/- 105.5 bbl Fr Water. Total Cement (340 sx / 478.3 cu ft / 86.3 bbls). Mix Foamed Cement w/ +/- 68,590 SCF Nitrogen. Est. TOC +/- 5,657 ft. *Proposed Usage:* 240 sacks lead, 100 sacks tail cement.

If cement does not circulate to surface (surface and intermediate), notify BLM and NMOCD immediately and run temperature and/or CBL survey in 8 hrs. to determine TOC.

Actual volumes will be calculated and determined by conditions onsite. All cement slurries will meet or exceed minimum BLM and New Mexico Oil Conservation Division requirements. Slurries used will be the slurries listed above or equivalent slurries depending upon service provider selected. Cement yields may change depending on slurries selected.

All waiting on cement times shall be a minimum of 8 hours or adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

6) PROPOSED DRILLING FLUIDS PROGRAM

Hole Size (in)	MD (ft)	Mud Type	Density (lb/gal)	Viscosity (sec/qt)	Fluid Loss (cc)	Other
12-1/4"	0 - 500'	Fresh water	8.4 – 8.6	60 – 70	NC	
8-3/4"	0' – 5807"	Fresh Water/LSND	8.5 – 8.8	40 - 50	6 – 8	
6-1/8"	5807' – 10007"	Oil Based Mud	7.0 – 9.0	15-25	< 1	

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- a) There will be sufficient mud on location to control a blowout should one occur. Mud flow and volume will be monitored both visually with electronic pit volume totalizers. Mud test shall be performed every 24 hours after "mudding up" to determine as applicable: density, viscosity, gel strength, filtration and pH.
- b) A closed loop system will be used to recover drilling fluid and dry cuttings in both phases of the well and on all hole intervals, including fresh water and oil-based operations. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an approved waste facility. Fresh water cuttings will be disposed either on site in a cuttings pit, lined w/ a 20 mil string re-enforced material and constructed to meet the NMOCD pit guidelines or an approved waste facility.

7 LOGGING & CORING PROGRAM:

DST: None

Coring: *None*

Cased hole logs: Possible Cement Bond Log (CBL)

Open Hole Logs: Possible Induction/Density/Neutron

MWD/LWD with Gamma: *8-3/4" Intermediate/Build Sections (2500' - 2772', 4917' - 5807') and 6-1/8" Lateral section (5807 - 10007,)*

Mudlogs: *~ 2000' to TD (1 wet, 1 dry sample every 30'. Use 10' intervals thru shows)*

8) ABNORMAL PRESSURES & HYDROGEN SULFIDE:

The anticipated bottom hole pressure is +/- 2,574 psi based on a 9.0 ppg mud at 5170' TVD of the landing point of the horizontal. No abnormal pressures or temperatures are anticipated based on historical drilling data in the immediate region. Estimated max STP w/ hole half full: 1,969 psi

No hydrogen sulfide gas is anticipated, however, if H₂S is encountered, the guidelines in Onshore Order No. 6 will be followed.

9) ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence no sooner than November 1st, 2014. It is anticipated that the completion operations will begin within 30 days after the well has been drilled depending on fracture treatment schedules with various pumping service companies.

It is anticipated that the drilling of this well will take 18 days.

OTHER INFORMATION

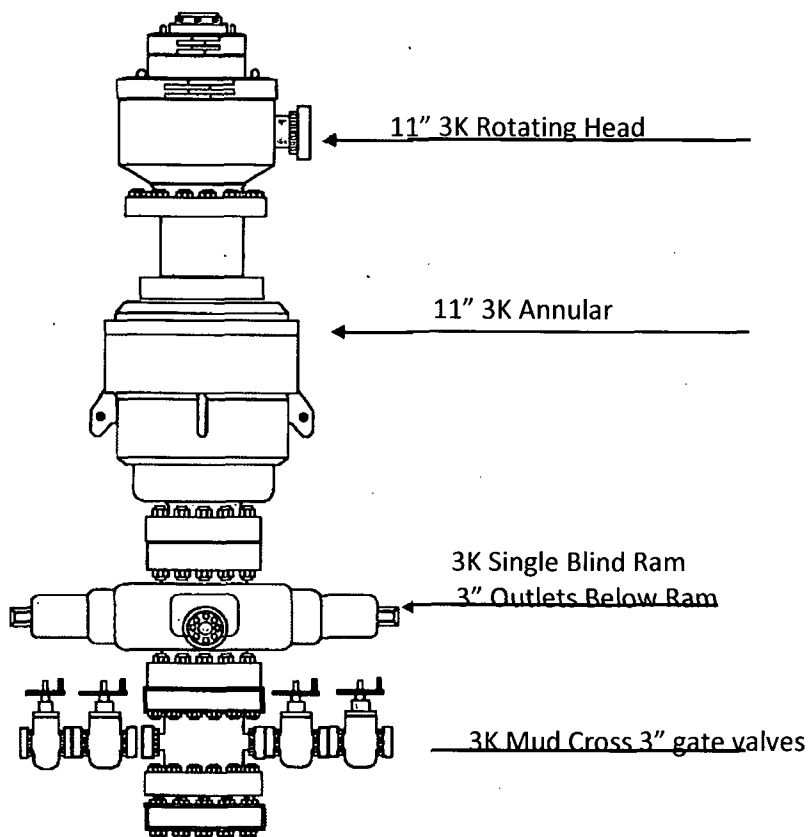
- 1) There will not be Thru Bit logging done on this well.

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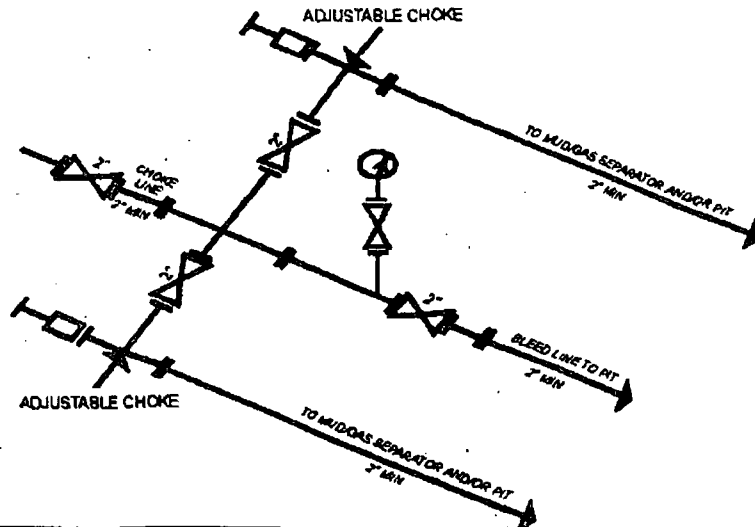


2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The intermediate casing string design may need to be altered to accommodate another DV tool depending on actual conditions.

WELLHEAD BLOWOUT CONTROL SYSTEM



7/29/2014



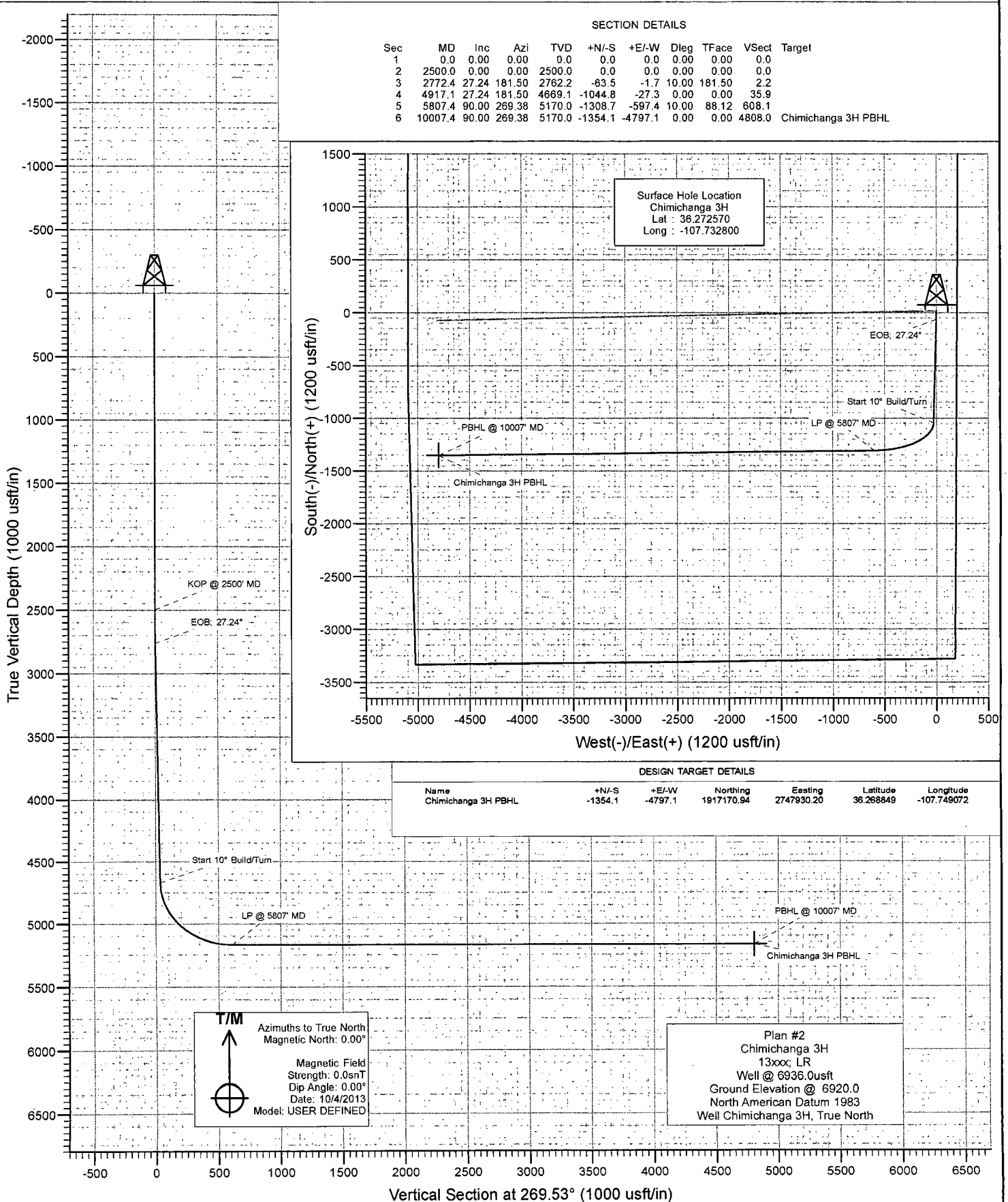
Merrion Oil & Gas

Project: San Juan County, NM
 Site: S36-T24N-R9W
 Well: Chimichanga 3H
 Wellbore: Hz
 Design: Plan #2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2772.4	27.24	181.50	2762.2	-63.5	-1.7	10.00	181.50	2.2	
4	4917.1	27.24	181.50	4669.1	-1044.8	-27.3	0.00	0.00	35.9	
5	5807.4	90.00	269.38	5170.0	-1308.7	-597.4	10.00	88.12	608.1	
6	10007.4	90.00	269.38	5170.0	-1354.1	-4797.1	0.00	0.00	4808.0	Chimichanga 3H PBHL



Vertical Section at 269.53° (1000 usft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Chimichanga 3H
Company:	Merrion Oil & Gas	TVD Reference:	Well @ 6936.0usft
Project:	San Juan County, NM	MD Reference:	Well @ 6936.0usft
Site:	S36-T24N-R9W	North Reference:	True
Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Project	San Juan County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		Using geodetic scale factor

Site		S36-T24N-R9W			
Site Position:		Northing:	1,918,548.11 usft	Latitude:	36.272620
From:	Lat/Long	Easting:	2,752,725.48 usft	Longitude:	-107.732800
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.06 °

Well		Chimichanga 3H				
Well Position	+N/-S	0.0 usft	Northing:	1,918,529.91 usft	Latitude:	36.272570
	+E/-W	0.0 usft	Easting:	2,752,725.50 usft	Longitude:	-107.732800
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,920.0 usft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	User Defined	10/4/2013	0.00	0.00	0

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	269.53

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,772.4	27.24	181.50	2,762.2	-63.5	-1.7	10.00	10.00	0.00	181.50	
4,917.1	27.24	181.50	4,669.1	-1,044.8	-27.3	0.00	0.00	0.00	0.00	
5,807.4	90.00	269.38	5,170.0	-1,308.7	-597.4	10.00	7.05	9.87	88.12	
10,007.4	90.00	269.38	5,170.0	-1,354.1	-4,797.1	0.00	0.00	0.00	0.00	Chimichanga 3H PBH

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Chimichanga 3H
Company:	Merrion Oil & Gas	TVD Reference:	Well @ 6936.0usft
Project:	San Juan County, NM	MD Reference:	Well @ 6936.0usft
Site:	S36-T24N-R9W	North Reference:	True
Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 2500' MD
2,550.0	5.00	181.50	2,549.9	-2.2	-0.1	0.1	10.00	10.00	
2,600.0	10.00	181.50	2,599.5	-8.7	-0.2	0.3	10.00	10.00	
2,650.0	15.00	181.50	2,648.3	-19.5	-0.5	0.7	10.00	10.00	
2,700.0	20.00	181.50	2,696.0	-34.5	-0.9	1.2	10.00	10.00	
2,750.0	25.00	181.50	2,742.1	-53.7	-1.4	1.8	10.00	10.00	
2,772.4	27.24	181.50	2,762.2	-63.5	-1.7	2.2	10.00	10.00	EOB; 27.24°
2,800.0	27.24	181.50	2,786.8	-76.2	-2.0	2.6	0.00	0.00	
2,900.0	27.24	181.50	2,875.7	-121.9	-3.2	4.2	0.00	0.00	
3,000.0	27.24	181.50	2,964.6	-167.7	-4.4	5.8	0.00	0.00	
3,100.0	27.24	181.50	3,053.5	-213.4	-5.6	7.3	0.00	0.00	
3,200.0	27.24	181.50	3,142.4	-259.2	-6.8	8.9	0.00	0.00	
3,300.0	27.24	181.50	3,231.3	-304.9	-8.0	10.5	0.00	0.00	
3,400.0	27.24	181.50	3,320.3	-350.7	-9.2	12.0	0.00	0.00	
3,500.0	27.24	181.50	3,409.2	-396.4	-10.4	13.6	0.00	0.00	
3,600.0	27.24	181.50	3,498.1	-442.2	-11.6	15.2	0.00	0.00	
3,700.0	27.24	181.50	3,587.0	-487.9	-12.8	16.8	0.00	0.00	
3,800.0	27.24	181.50	3,675.9	-533.7	-13.9	18.3	0.00	0.00	
3,900.0	27.24	181.50	3,764.8	-579.4	-15.1	19.9	0.00	0.00	
4,000.0	27.24	181.50	3,853.7	-625.2	-16.3	21.5	0.00	0.00	
4,100.0	27.24	181.50	3,942.6	-671.0	-17.5	23.0	0.00	0.00	
4,200.0	27.24	181.50	4,031.5	-716.7	-18.7	24.6	0.00	0.00	
4,300.0	27.24	181.50	4,120.5	-762.5	-19.9	26.2	0.00	0.00	
4,400.0	27.24	181.50	4,209.4	-808.2	-21.1	27.8	0.00	0.00	
4,500.0	27.24	181.50	4,298.3	-854.0	-22.3	29.3	0.00	0.00	
4,600.0	27.24	181.50	4,387.2	-899.7	-23.5	30.9	0.00	0.00	
4,700.0	27.24	181.50	4,476.1	-945.5	-24.7	32.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Chimichanga 3H
Company:	Merrion Oil & Gas	TVD Reference:	Well @ 6936.0usft
Project:	San Juan County, NM	MD Reference:	Well @ 6936.0usft
Site:	S36-T24N-R9W	North Reference:	True
Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	H2		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,800.0	27.24	181.50	4,565.0	-991.2	-25.9	34.0	0.00	0.00	
4,900.0	27.24	181.50	4,653.9	-1,037.0	-27.1	35.6	0.00	0.00	
4,917.1	27.24	181.50	4,669.1	-1,044.8	-27.3	35.9	0.00	0.00	Start 10° Build/Turn
4,950.0	27.53	188.63	4,698.3	-1,059.9	-28.6	37.3	9.99	0.88	
5,000.0	28.64	199.00	4,742.5	-1,082.6	-34.3	43.2	10.00	2.22	
5,050.0	30.48	208.44	4,786.0	-1,105.1	-44.2	53.3	10.00	3.67	
5,100.0	32.92	216.75	4,828.6	-1,127.2	-58.4	67.6	10.00	4.88	
5,150.0	35.83	223.95	4,869.8	-1,148.6	-76.7	86.1	10.00	5.84	
5,200.0	39.12	230.15	4,909.5	-1,169.3	-99.0	108.6	10.00	6.58	
5,250.0	42.70	235.49	4,947.3	-1,189.0	-125.1	134.8	10.00	7.15	
5,300.0	46.49	240.14	4,982.9	-1,207.6	-154.8	164.7	10.00	7.58	
5,350.0	50.44	244.23	5,016.1	-1,225.0	-187.9	197.9	10.00	7.91	
5,400.0	54.53	247.87	5,046.5	-1,241.1	-224.1	234.3	10.00	8.17	
5,450.0	58.71	251.16	5,074.0	-1,255.7	-263.2	273.5	10.00	8.36	
5,500.0	62.97	254.16	5,098.4	-1,268.7	-304.9	315.3	10.00	8.52	
5,550.0	67.28	256.94	5,119.4	-1,280.0	-348.8	359.3	10.00	8.63	
5,600.0	71.65	259.55	5,137.0	-1,289.5	-394.7	405.2	10.00	8.72	
5,650.0	76.04	262.03	5,150.9	-1,297.1	-442.0	452.7	10.00	8.79	
5,700.0	80.46	264.42	5,161.1	-1,302.9	-490.6	501.3	10.00	8.84	
5,750.0	84.90	266.75	5,167.4	-1,306.7	-540.1	550.8	10.00	8.87	
5,800.0	89.34	269.04	5,170.0	-1,308.6	-590.0	600.7	10.00	8.89	
5,807.4	90.00	269.38	5,170.0	-1,308.7	-597.3	608.0	10.01	8.90	LP @ 5807' MD
5,900.0	90.00	269.38	5,170.0	-1,309.7	-690.0	700.7	0.00	0.00	
6,000.0	90.00	269.38	5,170.0	-1,310.7	-789.9	800.7	0.00	0.00	
6,100.0	90.00	269.38	5,170.0	-1,311.8	-889.9	900.7	0.00	0.00	
6,200.0	90.00	269.38	5,170.0	-1,312.9	-989.9	1,000.7	0.00	0.00	
6,300.0	90.00	269.38	5,170.0	-1,314.0	-1,089.9	1,100.7	0.00	0.00	
6,400.0	90.00	269.38	5,170.0	-1,315.1	-1,189.9	1,200.7	0.00	0.00	
6,500.0	90.00	269.38	5,170.0	-1,316.1	-1,289.9	1,300.7	0.00	0.00	
6,600.0	90.00	269.38	5,170.0	-1,317.2	-1,389.9	1,400.7	0.00	0.00	
6,700.0	90.00	269.38	5,170.0	-1,318.3	-1,489.9	1,500.7	0.00	0.00	
6,800.0	90.00	269.38	5,170.0	-1,319.4	-1,589.9	1,600.7	0.00	0.00	
6,900.0	90.00	269.38	5,170.0	-1,320.5	-1,689.9	1,700.7	0.00	0.00	
7,000.0	90.00	269.38	5,170.0	-1,321.6	-1,789.9	1,800.7	0.00	0.00	
7,100.0	90.00	269.38	5,170.0	-1,322.6	-1,889.9	1,900.7	0.00	0.00	
7,200.0	90.00	269.38	5,170.0	-1,323.7	-1,989.9	2,000.7	0.00	0.00	
7,300.0	90.00	269.38	5,170.0	-1,324.8	-2,089.9	2,100.7	0.00	0.00	
7,400.0	90.00	269.38	5,170.0	-1,325.9	-2,189.9	2,200.7	0.00	0.00	
7,500.0	90.00	269.38	5,170.0	-1,327.0	-2,289.9	2,300.7	0.00	0.00	
7,600.0	90.00	269.38	5,170.0	-1,328.1	-2,389.9	2,400.7	0.00	0.00	
7,700.0	90.00	269.38	5,170.0	-1,329.1	-2,489.8	2,500.7	0.00	0.00	
7,800.0	90.00	269.38	5,170.0	-1,330.2	-2,589.8	2,600.7	0.00	0.00	
7,900.0	90.00	269.38	5,170.0	-1,331.3	-2,689.8	2,700.7	0.00	0.00	
8,000.0	90.00	269.38	5,170.0	-1,332.4	-2,789.8	2,800.7	0.00	0.00	
8,100.0	90.00	269.38	5,170.0	-1,333.5	-2,889.8	2,900.7	0.00	0.00	
8,200.0	90.00	269.38	5,170.0	-1,334.5	-2,989.8	3,000.7	0.00	0.00	
8,300.0	90.00	269.38	5,170.0	-1,335.6	-3,089.8	3,100.7	0.00	0.00	
8,400.0	90.00	269.38	5,170.0	-1,336.7	-3,189.8	3,200.7	0.00	0.00	
8,500.0	90.00	269.38	5,170.0	-1,337.8	-3,289.8	3,300.7	0.00	0.00	
8,600.0	90.00	269.38	5,170.0	-1,338.9	-3,389.8	3,400.7	0.00	0.00	
8,700.0	90.00	269.38	5,170.0	-1,340.0	-3,489.8	3,500.7	0.00	0.00	
8,800.0	90.00	269.38	5,170.0	-1,341.0	-3,589.8	3,600.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Chimichanga 3H
Company:	Merrion Oil & Gas	TVD Reference:	Well @ 6936.0usft
Project:	San Juan County, NM	MD Reference:	Well @ 6936.0usft
Site:	S36-T24N-R9W	North Reference:	True
Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
8,900.0	90.00	269.38	5,170.0	-1,342.1	-3,689.8	3,700.7	0.00	0.00	
9,000.0	90.00	269.38	5,170.0	-1,343.2	-3,789.8	3,800.7	0.00	0.00	
9,100.0	90.00	269.38	5,170.0	-1,344.3	-3,889.8	3,900.7	0.00	0.00	
9,200.0	90.00	269.38	5,170.0	-1,345.4	-3,989.8	4,000.7	0.00	0.00	
9,300.0	90.00	269.38	5,170.0	-1,346.4	-4,089.8	4,100.7	0.00	0.00	
9,400.0	90.00	269.38	5,170.0	-1,347.5	-4,189.7	4,200.7	0.00	0.00	
9,500.0	90.00	269.38	5,170.0	-1,348.6	-4,289.7	4,300.7	0.00	0.00	
9,600.0	90.00	269.38	5,170.0	-1,349.7	-4,389.7	4,400.7	0.00	0.00	
9,700.0	90.00	269.38	5,170.0	-1,350.8	-4,489.7	4,500.7	0.00	0.00	
9,800.0	90.00	269.38	5,170.0	-1,351.9	-4,589.7	4,600.7	0.00	0.00	
9,900.0	90.00	269.38	5,170.0	-1,352.9	-4,689.7	4,700.7	0.00	0.00	
10,007.4	90.00	269.38	5,170.0	-1,354.1	-4,797.1	4,808.0	0.00	0.00	PBHL @ 10007' MD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Well #3 Pad 2 LP (copy)	0.00	0.00	12,016.0	-1,917,789.8	-2,755,597.4	-1,961.49	-652.76	30.704540	-116.484421
- plan misses target center by 3352562.5usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Well #1 Pad 2 PBHL	0.00	0.00	12,016.0	-1,914,962.7	-2,759,426.7	861.38	-4,484.64	30.711403	-116.497165
- plan misses target center by 3354091.4usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Well #3 Pad 2 PBHL	0.00	0.00	12,016.0	-1,917,599.9	-2,759,553.2	-1,775.72	-4,608.40	30.704209	-116.496909
- plan misses target center by 3355700.5usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Well #1 Pad 2 LP	0.00	0.00	12,016.0	-1,915,152.7	-2,755,470.8	675.56	-528.88	30.711734	-116.484676
- plan misses target center by 3350951.8usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Well #3 Pad 2 LP	0.00	0.00	12,016.0	-1,917,789.8	-2,755,597.4	-1,961.49	-652.76	30.704540	-116.484421
- plan misses target center by 3352562.5usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Well #3 Pad 2 PBHL (co	0.00	0.00	12,016.0	-1,917,599.9	-2,759,553.2	-1,775.72	-4,608.40	30.704209	-116.496909
- plan misses target center by 3355700.5usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Well #3 Pad 2 PBHL 2	0.00	0.00	5,170.0	3,596.8	-1,549,499.1	1,920,517.90	1,203,351.10	36.167243	-112.980061
- plan misses target center by 1544709.9usft at 10007.4usft MD (5170.0 TVD, -1354.1 N, -4797.1 E)									
- Circle (radius 660.0)									
Chimichanga 3H PBHL	0.00	0.00	5,170.0	-1,354.1	-4,797.1	1,917,170.94	2,747,930.20	36.268849	-107.749072
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Chimichanga 3H
Company:	Merrion Oil & Gas	TVD Reference:	Well @ 6936.0usft
Project:	San Juan County, NM	MD Reference:	Well @ 6936.0usft
Site:	S36-T24N-R9W	North Reference:	True
Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.0	2,500.0	0.0	0.0	KOP @ 2500' MD
2,772.4	2,762.2	-63.5	-1.7	EOB; 27.24°
4,917.1	4,669.1	-1,044.8	-27.3	Start 10° Build/Turn
5,807.4	5,170.0	-1,308.7	-597.3	LP @ 5807' MD
10,007.4	5,170.0	-1,354.1	-4,797.1	PBHL @ 10007' MD

Merrion Oil & Gas

San Juan County, NM

S36-T24N-R9W

Chimichanga 3H

Hz

Plan #2

Anticollision Report

21 July, 2014

Anticollision Report

Company:	Merrion Oil & Gas	Local Co-ordinate Reference:	Well Chimichanga 3H
Project:	San Juan County, NM	TVD Reference:	Well @ 6936.0usft
Reference Site:	S36-T24N-R9W	MD Reference:	Well @ 6936.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,550.0usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date 7/21/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	10,007.4	Plan #2 (Hz)	MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S36-T24N-R9W						
Chipsnsalsa #2H - HZ - Plan #3	2,500.0	2,423.0	18.2	9.7	2.134	CC, ES, SF

Anticollision Report

Company:	Merrion Oil & Gas	Local Co-ordinate Reference:	Well Chimichanga 3H
Project:	San Juan County, NM	TVD Reference:	Well @ 6936.0usft
Reference Site:	S36-T24N-R9W	MD Reference:	Well @ 6936.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S36-T24N-R9W - Chipsnsalsa #2H - HZ - Plan #3													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	0.00	18.2	0.0	79.1					
100.0	100.0	23.0	23.0	0.1	0.0	0.00	18.2	0.0	18.2	18.0	0.18	101.849		
200.0	200.0	123.0	123.0	0.3	0.2	0.00	18.2	0.0	18.2	17.7	0.50	36.339		
300.0	300.0	223.0	223.0	0.5	0.4	0.00	18.2	0.0	18.2	17.4	0.85	21.416		
400.0	400.0	323.0	323.0	0.7	0.5	0.00	18.2	0.0	18.2	17.0	1.20	15.181		
500.0	500.0	423.0	423.0	0.8	0.7	0.00	18.2	0.0	18.2	16.7	1.55	11.758		
600.0	600.0	523.0	523.0	1.0	0.9	0.00	18.2	0.0	18.2	16.3	1.90	9.595		
700.0	700.0	623.0	623.0	1.2	1.1	0.00	18.2	0.0	18.2	16.0	2.25	8.104		
800.0	800.0	723.0	723.0	1.4	1.2	0.00	18.2	0.0	18.2	15.6	2.60	7.014		
900.0	900.0	823.0	823.0	1.5	1.4	0.00	18.2	0.0	18.2	15.3	2.94	6.182		
1,000.0	1,000.0	923.0	923.0	1.7	1.6	0.00	18.2	0.0	18.2	14.9	3.29	5.527		
1,100.0	1,100.0	1,023.0	1,023.0	1.9	1.8	0.00	18.2	0.0	18.2	14.6	3.64	4.997		
1,200.0	1,200.0	1,123.0	1,123.0	2.1	1.9	0.00	18.2	0.0	18.2	14.2	3.99	4.560		
1,300.0	1,300.0	1,223.0	1,223.0	2.2	2.1	0.00	18.2	0.0	18.2	13.9	4.34	4.194		
1,400.0	1,400.0	1,323.0	1,323.0	2.4	2.3	0.00	18.2	0.0	18.2	13.5	4.69	3.881		
1,500.0	1,500.0	1,423.0	1,423.0	2.6	2.4	0.00	18.2	0.0	18.2	13.2	5.04	3.613		
1,600.0	1,600.0	1,523.0	1,523.0	2.8	2.6	0.00	18.2	0.0	18.2	12.8	5.39	3.378		
1,700.0	1,700.0	1,623.0	1,623.0	2.9	2.8	0.00	18.2	0.0	18.2	12.5	5.74	3.173		
1,800.0	1,800.0	1,723.0	1,723.0	3.1	3.0	0.00	18.2	0.0	18.2	12.1	6.09	2.991		
1,900.0	1,900.0	1,823.0	1,823.0	3.3	3.1	0.00	18.2	0.0	18.2	11.8	6.44	2.829		
2,000.0	2,000.0	1,923.0	1,923.0	3.5	3.3	0.00	18.2	0.0	18.2	11.4	6.78	2.683		
2,100.0	2,100.0	2,023.0	2,023.0	3.6	3.5	0.00	18.2	0.0	18.2	11.1	7.13	2.552		
2,200.0	2,200.0	2,123.0	2,123.0	3.8	3.7	0.00	18.2	0.0	18.2	10.7	7.48	2.433		
2,300.0	2,300.0	2,223.0	2,223.0	4.0	3.8	0.00	18.2	0.0	18.2	10.4	7.83	2.324		
2,400.0	2,400.0	2,323.0	2,323.0	4.2	4.0	0.00	18.2	0.0	18.2	10.0	8.18	2.225		
2,500.0	2,500.0	2,423.0	2,423.0	4.3	4.2	0.00	18.2	0.0	18.2	9.7	8.53	2.134 CC, ES, SF		
2,550.0	2,549.9	2,472.9	2,472.9	4.4	4.3	178.66	18.2	0.0	20.4	11.7	8.68	2.348		
2,600.0	2,599.5	2,522.5	2,522.5	4.5	4.4	178.97	18.2	0.0	26.9	18.1	8.79	3.061		
2,650.0	2,648.3	2,571.3	2,571.3	4.6	4.5	179.25	18.2	0.0	37.7	28.9	8.85	4.263		
2,700.0	2,696.0	2,619.0	2,619.0	4.7	4.5	179.45	18.2	0.0	52.8	43.9	8.86	5.952		
2,750.0	2,742.1	2,665.1	2,665.1	4.9	4.6	179.58	18.2	0.0	71.9	63.0	8.83	8.139		
2,772.4	2,762.2	2,685.2	2,685.2	5.0	4.7	179.63	18.2	0.0	81.7	72.9	8.80	9.284		
2,800.0	2,786.8	2,709.8	2,709.8	5.1	4.7	179.68	18.2	0.0	94.4	85.5	8.89	10.610		
2,900.0	2,875.7	2,798.7	2,798.7	5.5	4.8	179.78	18.2	0.0	140.1	130.9	9.23	15.190		
3,000.0	2,964.6	2,887.6	2,887.6	6.1	5.0	179.84	18.2	0.0	185.9	176.4	9.56	19.455		
3,100.0	3,053.5	2,976.5	2,976.5	6.7	5.2	179.87	18.2	0.0	231.7	221.8	9.89	23.436		
3,200.0	3,142.4	3,065.4	3,065.4	7.3	5.3	179.89	18.2	0.0	277.5	267.2	10.22	27.161		
3,300.0	3,231.3	3,154.3	3,154.3	8.0	5.5	179.91	18.2	0.0	323.2	312.7	10.54	30.655		
3,400.0	3,320.3	3,243.3	3,243.3	8.6	5.6	179.92	18.2	0.0	369.0	358.1	10.87	33.938		
3,500.0	3,409.2	3,332.2	3,332.2	9.4	5.8	179.93	18.2	0.0	414.8	403.6	11.20	37.031		
3,600.0	3,498.1	3,421.1	3,421.1	10.1	5.9	179.93	18.2	0.0	460.5	449.0	11.53	39.948		
3,700.0	3,587.0	3,510.0	3,510.0	10.8	6.1	179.94	18.2	0.0	506.3	494.4	11.86	42.705		
3,800.0	3,675.9	3,598.9	3,598.9	11.6	6.2	179.94	18.2	0.0	552.1	539.9	12.18	45.315		
3,900.0	3,764.8	3,687.8	3,687.8	12.3	6.4	179.95	18.2	0.0	597.8	585.3	12.51	47.789		
4,000.0	3,853.7	3,776.7	3,776.7	13.1	6.6	179.95	18.2	0.0	643.6	630.8	12.84	50.138		
4,100.0	3,942.6	3,865.6	3,865.6	13.9	6.7	179.96	18.2	0.0	689.4	676.2	13.16	52.371		
4,200.0	4,031.5	3,954.5	3,954.5	14.7	6.9	179.96	18.2	0.0	735.1	721.7	13.49	54.497		
4,300.0	4,120.5	4,043.5	4,043.5	15.4	7.0	179.96	18.2	0.0	780.9	767.1	13.82	56.523		
4,400.0	4,209.4	4,132.4	4,132.4	16.2	7.2	179.96	18.2	0.0	826.7	812.5	14.14	58.456		
4,500.0	4,298.3	4,221.3	4,221.3	17.0	7.3	179.96	18.2	0.0	872.5	858.0	14.47	60.303		
4,600.0	4,387.2	4,310.2	4,310.2	17.8	7.5	179.97	18.2	0.0	918.2	903.4	14.79	62.069		
4,700.0	4,476.1	4,399.1	4,399.1	18.6	7.6	179.97	18.2	0.0	964.0	948.9	15.12	63.759		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Merrion Oil & Gas	Local Co-ordinate Reference:	Well Chimichanga 3H
Project:	San Juan County, NM	TVD Reference:	Well @ 6936.0usft
Reference Site:	S36-T24N-R9W	MD Reference:	Well @ 6936.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S36-T24N-R9W - Chipsnsalsa #2H - HZ - Plan #3														Offset Site Error:	0.0 usft
Survey Program: 0-MWD														Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning	
4,800.0	4,565.0	4,488.0	4,488.0	19.4	7.8	179.97		18.2	0.0	1,009.8	994.3	15.44	65.379		
4,900.0	4,653.9	4,576.9	4,576.9	20.2	8.0	179.97		18.2	0.0	1,055.5	1,039.8	15.77	66.932		
4,917.1	4,669.1	4,592.1	4,592.1	20.3	8.0	179.97		18.2	0.0	1,063.4	1,047.5	15.83	67.191		
4,950.0	4,698.3	4,621.3	4,621.3	20.6	8.0	172.00		18.2	0.0	1,078.4	1,062.5	15.95	67.605		
5,000.0	4,742.5	4,665.5	4,665.5	21.0	8.1	160.56		18.2	0.0	1,101.4	1,085.1	16.24	67.820		
5,050.0	4,786.0	4,709.0	4,709.0	21.4	8.2	150.30		18.2	0.0	1,124.2	1,107.6	16.63	67.605		
5,100.0	4,828.6	4,751.6	4,751.6	21.8	8.3	141.39		18.2	0.0	1,146.9	1,129.8	17.10	67.071		
5,150.0	4,869.8	4,800.3	4,800.3	22.2	8.3	133.92		18.2	-1.5	1,169.2	1,151.6	17.63	66.331		
5,200.0	4,909.5	4,853.9	4,853.4	22.6	8.4	127.60		18.0	-8.4	1,190.9	1,172.7	18.21	65.390		
5,250.0	4,947.3	4,910.8	4,908.6	23.0	8.6	122.27		17.8	-21.8	1,211.8	1,192.9	18.85	64.276		
5,300.0	4,982.9	4,971.4	4,965.4	23.4	8.7	117.76		17.4	-42.9	1,231.6	1,212.0	19.55	62.994		
5,350.0	5,016.1	5,036.1	5,022.8	23.8	8.9	113.94		16.8	-72.7	1,250.0	1,229.7	20.32	61.510		
5,400.0	5,046.5	5,105.0	5,079.2	24.2	9.2	110.70		16.1	-112.2	1,266.9	1,245.7	21.21	59.743		
5,450.0	5,074.0	5,177.9	5,132.4	24.6	9.7	107.93		15.1	-162.0	1,282.0	1,259.7	22.27	57.559		
5,500.0	5,098.4	5,254.4	5,179.9	25.0	10.4	105.53		14.0	-221.8	1,295.1	1,271.5	23.57	54.953		
5,550.0	5,119.4	5,333.4	5,218.9	25.5	11.4	103.43		12.7	-290.5	1,306.0	1,280.8	25.16	51.901		
5,600.0	5,137.0	5,413.7	5,247.0	25.9	12.6	101.57		11.3	-365.5	1,314.5	1,287.5	27.03	48.632		
5,650.0	5,150.9	5,493.5	5,262.9	26.4	14.1	99.93		9.8	-443.6	1,320.6	1,291.5	29.10	45.374		
5,700.0	5,161.1	5,556.8	5,267.8	26.8	15.3	98.69		8.7	-506.7	1,324.5	1,293.5	30.98	42.754		
5,750.0	5,167.4	5,615.7	5,269.0	27.3	16.5	97.90		7.5	-565.6	1,326.6	1,293.8	32.77	40.486		
5,800.0	5,170.0	5,665.9	5,268.7	27.8	17.6	97.61		6.6	-615.8	1,327.1	1,292.7	34.40	38.581		
5,807.4	5,170.0	5,673.3	5,268.7	27.9	17.7	97.61		6.5	-623.2	1,327.0	1,292.4	34.64	38.314		
5,900.0	5,170.0	5,765.9	5,268.1	28.9	19.7	97.59		4.7	-715.7	1,326.2	1,287.7	38.57	34.382		
6,000.0	5,170.0	5,865.9	5,267.6	30.2	22.0	97.57		2.8	-815.7	1,325.4	1,282.4	42.96	30.852		
6,100.0	5,170.0	5,965.9	5,267.0	31.6	24.3	97.55		0.9	-915.7	1,324.5	1,277.0	47.45	27.915		
6,200.0	5,170.0	6,065.9	5,266.4	33.1	26.6	97.53		-0.9	-1,015.7	1,323.6	1,271.6	52.01	25.448		
6,300.0	5,170.0	6,165.9	5,265.8	34.8	28.9	97.51		-2.8	-1,115.6	1,322.8	1,266.1	56.63	23.356		
6,400.0	5,170.0	6,265.8	5,265.2	36.6	31.3	97.49		-4.7	-1,215.6	1,321.9	1,260.6	61.30	21.563		
6,500.0	5,170.0	6,365.8	5,264.6	38.5	33.6	97.46		-6.6	-1,315.6	1,321.0	1,255.0	66.01	20.014		
6,600.0	5,170.0	6,465.8	5,264.0	40.4	36.0	97.44		-8.5	-1,415.6	1,320.1	1,249.4	70.74	18.662		
6,700.0	5,170.0	6,565.8	5,263.4	42.5	38.4	97.42		-10.3	-1,515.5	1,319.3	1,243.8	75.49	17.475		
6,800.0	5,170.0	6,665.8	5,262.8	44.5	40.9	97.40		-12.2	-1,615.5	1,318.4	1,238.1	80.27	16.425		
6,900.0	5,170.0	6,765.8	5,262.2	46.7	43.3	97.38		-14.1	-1,715.5	1,317.5	1,232.5	85.06	15.490		
7,000.0	5,170.0	6,865.8	5,261.7	48.8	45.7	97.36		-16.0	-1,815.5	1,316.7	1,226.8	89.86	14.652		
7,100.0	5,170.0	6,965.8	5,261.1	51.0	48.1	97.34		-17.9	-1,915.4	1,315.8	1,221.1	94.68	13.898		
7,200.0	5,170.0	7,065.8	5,260.5	53.2	50.6	97.32		-19.8	-2,015.4	1,314.9	1,215.4	99.50	13.215		
7,300.0	5,170.0	7,165.8	5,259.9	55.5	53.0	97.30		-21.6	-2,115.4	1,314.1	1,209.7	104.33	12.595		
7,400.0	5,170.0	7,265.8	5,259.3	57.8	55.4	97.28		-23.5	-2,215.4	1,313.2	1,204.0	109.18	12.028		
7,500.0	5,170.0	7,365.8	5,258.7	60.1	57.9	97.25		-25.4	-2,315.3	1,312.3	1,198.3	114.02	11.509		
7,600.0	5,170.0	7,465.8	5,258.1	62.4	60.3	97.23		-27.3	-2,415.3	1,311.4	1,192.6	118.88	11.032		
7,700.0	5,170.0	7,565.8	5,257.5	64.7	62.8	97.21		-29.2	-2,515.3	1,310.6	1,186.8	123.74	10.592		
7,800.0	5,170.0	7,665.8	5,256.9	67.0	65.2	97.19		-31.1	-2,615.3	1,309.7	1,181.1	128.60	10.184		
7,900.0	5,170.0	7,765.8	5,256.3	69.4	67.7	97.17		-32.9	-2,715.3	1,308.8	1,175.4	133.47	9.806		
8,000.0	5,170.0	7,865.8	5,255.8	71.7	70.1	97.15		-34.8	-2,815.2	1,308.0	1,169.6	138.34	9.455		
8,100.0	5,170.0	7,965.8	5,255.2	74.1	72.6	97.13		-36.7	-2,915.2	1,307.1	1,163.9	143.22	9.127		
8,200.0	5,170.0	8,065.8	5,254.6	76.4	75.0	97.11		-38.6	-3,015.2	1,306.2	1,158.1	148.09	8.820		
8,300.0	5,170.0	8,165.8	5,254.0	78.8	77.5	97.09		-40.5	-3,115.2	1,305.4	1,152.4	152.97	8.533		
8,400.0	5,170.0	8,265.7	5,253.4	81.2	80.0	97.06		-42.4	-3,215.1	1,304.5	1,146.6	157.86	8.264		
8,500.0	5,170.0	8,365.7	5,252.8	83.6	82.4	97.04		-44.2	-3,315.1	1,303.6	1,140.9	162.75	8.010		
8,600.0	5,170.0	8,465.7	5,252.2	86.0	84.9	97.02		-46.1	-3,415.1	1,302.8	1,135.1	167.63	7.771		
8,700.0	5,170.0	8,565.7	5,251.6	88.4	87.3	97.00		-48.0	-3,515.1	1,301.9	1,129.4	172.52	7.546		
8,800.0	5,170.0	8,665.7	5,251.0	90.8	89.8	96.98		-49.9	-3,615.0	1,301.0	1,123.6	177.42	7.333		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Merrion Oil & Gas	Local Co-ordinate Reference:	Well Chimichanga 3H
Project:	San Juan County, NM	TVD Reference:	Well @ 6936.0usft
Reference Site:	S36-T24N-R9W	MD Reference:	Well @ 6936.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S36-T24N-R9W - Chipsnsalsa #2H - HZ - Plan #3												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Total Uncertainty Axis	Separation Factor	Warning
8,900.0	5,170.0	8,765.7	5,250.5	93.2	92.3	96.96	-51.8	-3,715.0	1,300.2	1,117.9	182.31	7.132	
9,000.0	5,170.0	8,865.7	5,249.9	95.6	94.7	96.93	-53.6	-3,815.0	1,299.3	1,112.1	187.21	6.940	
9,100.0	5,170.0	8,965.7	5,249.3	98.0	97.2	96.91	-55.5	-3,915.0	1,298.4	1,106.3	192.11	6.759	
9,200.0	5,170.0	9,065.7	5,248.7	100.4	99.6	96.89	-57.4	-4,014.9	1,297.6	1,100.6	197.01	6.586	
9,300.0	5,170.0	9,165.7	5,248.1	102.9	102.1	96.87	-59.3	-4,114.9	1,296.7	1,094.8	201.91	6.422	
9,400.0	5,170.0	9,265.7	5,247.5	105.3	104.6	96.85	-61.2	-4,214.9	1,295.8	1,089.0	206.81	6.266	
9,500.0	5,170.0	9,365.7	5,246.9	107.7	107.0	96.83	-63.1	-4,314.9	1,295.0	1,083.3	211.71	6.117	
9,600.0	5,170.0	9,465.7	5,246.3	110.1	109.5	96.81	-64.9	-4,414.8	1,294.1	1,077.5	216.62	5.974	
9,700.0	5,170.0	9,565.7	5,245.7	112.6	112.0	96.78	-66.8	-4,514.8	1,293.2	1,071.7	221.53	5.838	
9,800.0	5,170.0	9,665.7	5,245.1	115.0	114.4	96.76	-68.7	-4,614.8	1,292.4	1,065.9	226.43	5.708	
9,900.0	5,170.0	9,765.7	5,244.6	117.4	116.9	96.74	-70.6	-4,714.8	1,291.5	1,060.2	231.34	5.583	
10,007.4	5,170.0	9,861.9	5,244.0	120.0	119.3	96.72	-72.4	-4,811.0	1,290.6	1,054.3	236.34	5.461	

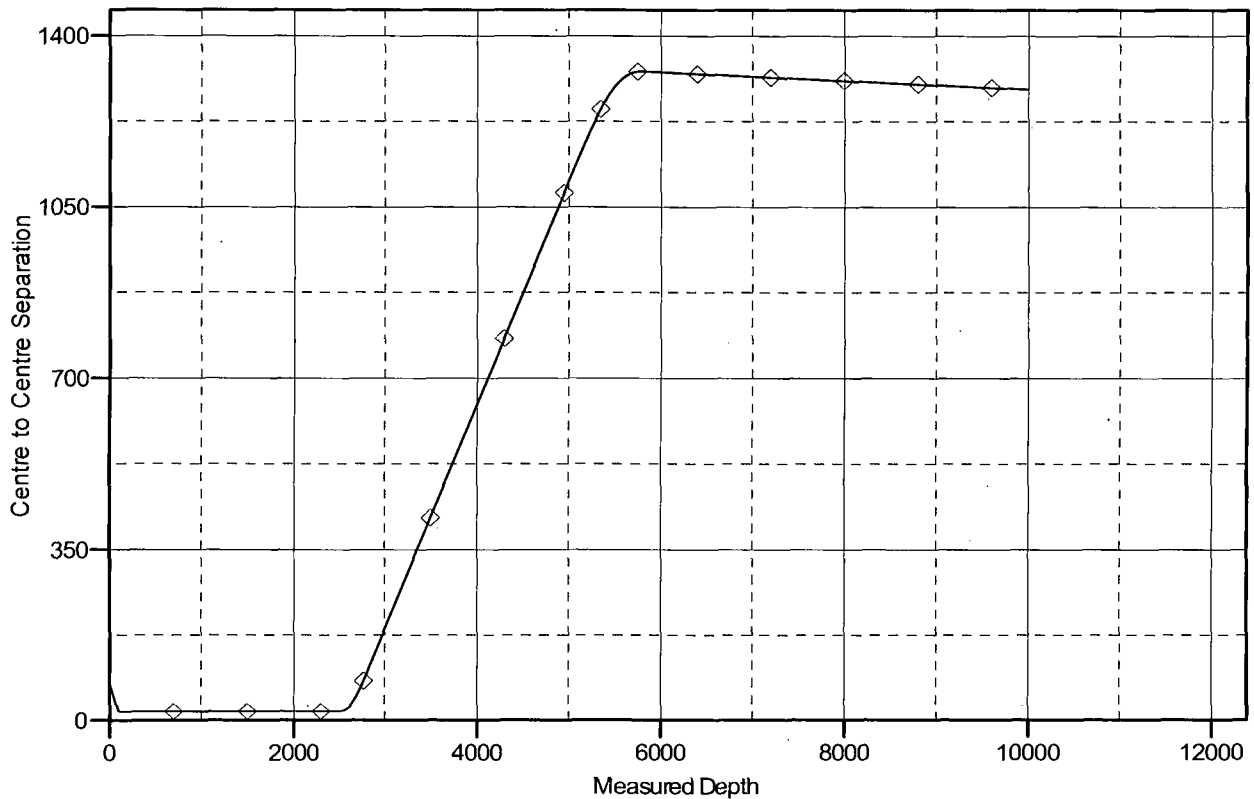
Anticollision Report

Company:	Merrion Oil & Gas	Local Co-ordinate Reference:	Well Chimichanga 3H
Project:	San Juan County, NM	TVD Reference:	Well @ 6936.0usft
Reference Site:	S36-T24N-R9W	MD Reference:	Well @ 6936.0usft
Site Error:	0.0usft	North Reference:	True
Reference Well:	Chimichanga 3H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0usft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to Well @ 6936.0usft
Offset Depths are relative to Offset Datum
Central Meridian is -107.833333 °

Coordinates are relative to: Chimichanga 3H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.06°

Ladder Plot



LEGEND

◆ Chipsnsalsa #2H,HZ,Plan #3 V0