

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 1-21-16

Well information;

Operator Encana, Well Name and Number Gallo Canyon Unit #2114

API# 30-043-21282, Section 26, Township 23 N/S, Range 06 E/W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☒ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☐ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- ☒ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- ☒ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.


NMOCD Approved by Signature

3-4-2016
Date KC

MAR 03 2016

JAN 25 2016

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR **Farmington Field Office**
BUREAU OF LAND MANAGEMENT **Bureau of Land Management**

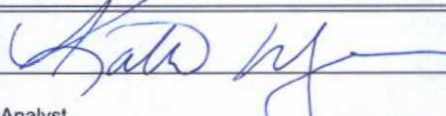
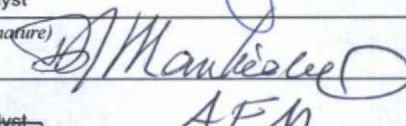
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM 118128 (POE)
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name N/A
1c. Type of Completion: <input checked="" type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No. NMNM 131017X
2. Name of Operator Encana Oil & Gas (USA) Inc.		8. Lease Name and Well No. Gallo Canyon Unit 211H
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202	3b. Phone No. (include area code) 720-876-3533	9. API Well No. 30-043-21282
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 257' FSL and 907' FEL Section 26, T23N, R6W SESE At proposed prod. zone 330' FSL and 1390' FEL Section 36, T23N, R6W SWNE SHL BHL Sec 36, T23N, R6W		10. Field and Pool, or Exploratory Counselors Gallup-Dakota
11. Sec., T. R. M. or Blk. and Survey or Area Section 26, T23N, R6W NMPM		12. County or Parish Sandoval
13. State NM		14. Distance in miles and direction from nearest town or post office* +/- 55.0 miles southeast of the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) BHL is 330' from south lease line in Section 36	16. No of acres in lease NMNM 131017X-5,120 acres 1920.00	17. Spacing Unit dedicated to this well 5,120 acres Sections 22-26, 34-36 5760.00
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. +/- 30' East of GCU 204H	19. Proposed Depth 5,156' TVD, 12,247' MD	20. BLM/BIA Bond No. in file COB-000235
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,870', KB 6,886' GL	22. Approximate date work will start* 06/01/2016	23. Estimated duration 20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature 	Name (Printed/Typed) Katie Wegner	Date 1/21/16
Title Regulatory Analyst		
Approved by (Signature) 	Name (Printed/Typed) AFM	Date 2/29/16
Title Regulatory Analyst	Office FFO	

Application approval 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.

Conditions of approval, if any, are attached.

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.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

DRILLING OPERATIONS
AUTHORIZED ARE SUBJECT TO
COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30043-21282	² Pool Code 13379	³ Pool Name COUNSELORS GALLUP-DAKOTA
⁴ Property Code 313261 315083	⁵ Property Name GALLO CANYON UNIT	⁶ Well Number 211H
⁷ GRID No. 282327	⁸ Operator Name ENCANA OIL & GAS (USA) INC.	⁹ Elevation 6870'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	26	23N	6W		257'	SOUTH	907'	EAST	SANDOVAL

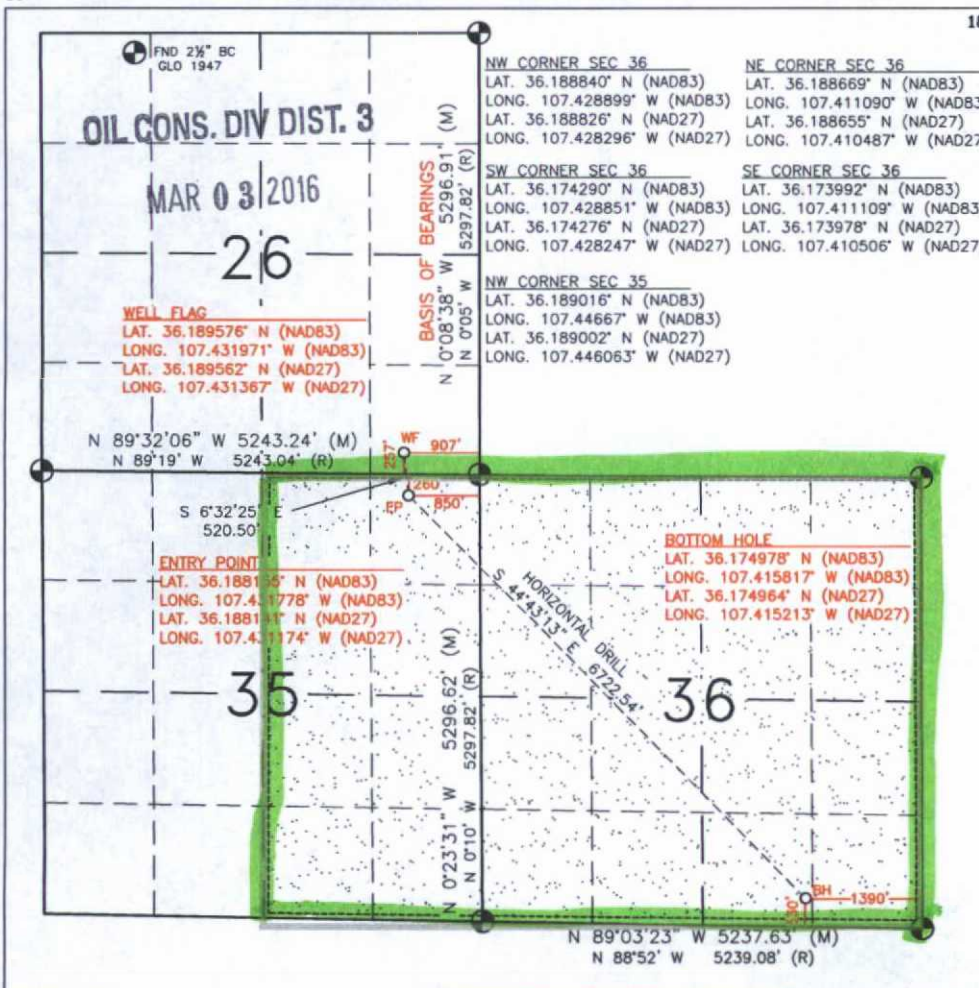
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	36	23N	6W		330'	SOUTH	1390'	EAST	SANDOVAL

¹² Dedicated Acres Penetrated Spacing Units; E/2 Sec. 35 - 320 Acres; ALL Sec. 36 - 640 Acres 5,120 Acres Sec. 22-26, 34-36 - Undivided Unit	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13718-A - 5,120 Acres (COMMITTED)
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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

16



18 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.

Katie Wegner 01/20/16
Signature Date

Katie Wegner

Printed Name

katie.wegner@encana.com

E-mail Address

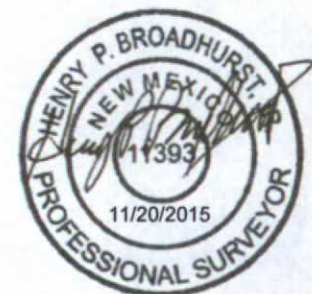
SURVEYOR CERTIFICATION

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.

SEPTEMBER 3, 2015

Date of Survey

Signature and Seal of Professional Surveyor:



Gallo Canyon Unit 211H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 257' FSL, 907' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 1390' FEL

Sandoval, New Mexico

Lease Number: NMNM 131017X (NMNM 118128 & VO-9212)

**Encana Oil & Gas (USA) Inc.
Drilling Plan****1. ESTIMATED TOPS OF GEOLOGICAL MARKERS (TVD)**

The estimated tops of important geologic markers are as follows:

Formation	Depth (TVD) units = feet
San Jose Fn.	n/a
Nacimiento Fn.	surface
Ojo Alamo Ss.	1,312
Kirtland Shale	1,418
Fruitland Coal	1,594
Pictured Cliffs Ss.	1,846
Lewis Shale	1,963
Cliffhouse Ss.	2,669
Menefee Fn.	3,395
Point Lookout Ss.	4,087
Mancos Shale	4,283
Mancos Silt	4,872
Gallup Fn.	5,128
Base Gallup	5,439

The referenced surface elevation is 6870', KB 6886'

**2. ESTIMATED DEPTH OF POTENTIAL WATER, OIL, GAS,
& OTHER MINERAL BEARING FORMATIONS**

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,594
Oil/Gas	Pictured Cliffs Ss.	1,846
Oil/Gas	Cliffhouse Ss.	2,669
Gas	Menefee Fn.	3,395
Oil/Gas	Point Lookout Ss.	4,087
Oil/Gas	Mancos Shale	4,283
Oil/Gas	Mancos Silt	4,872
Oil/Gas	Gallup Fn.	5,128

All shows of fresh water and minerals will be reported and protected.

Gallo Canyon Unit 211H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 257' FSL, 907' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 1390' FEL

Sandoval, New Mexico

Lease Number: NMNM 131017X (NMNM 118128 & VO-9212)

3. PRESSURE CONTROL

- a) Pressure control equipment and configuration will be designed to meet 2M standards.
- b) Working pressure on rams and BOPE will be 3,000 psi.
- c) Function test and visual inspection of the BOP will be conducted daily and noted in the IADC Daily Drilling Report.
- d) The Annular BOP will be pressure tested to a minimum of 50 percent of its rated working pressure.
- e) Blind and Pipe Rams/BOP will be tested against a test plug to 100 percent of rated working pressure.
- f) Pressure tests are required before drilling out from under all casing strings set and cemented in place.
- g) BOP controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.
- h) BOP testing procedures and testing frequency will conform to Onshore Order No. 2.
- i) BOP remote controls shall be located on the rig floor at a location readily accessible to the driller. Master controls shall be on the ground at the accumulator and shall have the capability to function all preventers.
- j) The kill line shall be 2-inch minimum and contain two kill line valves, one of which shall be a check valve.
- k) The choke line shall be a 2-inch minimum and contain two choke line valves (2-inch minimum).
- l) The choke and manifold shall contain two adjustable chokes.
- m) Hand wheels shall be installed on all ram preventers.
- n) Safety valves and wrenches (with subs for drill string connections) shall be available on the rig floor at all times.
- o) Inside BOP or float sub shall also be available on the rig floor at all times.

Proposed BOP and choke manifold arrangements are attached.

4. CASING & CEMENTING PROGRAM

The proposed casing and cementing program has been designed to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. All indications of useable water shall be reported.

- a) The proposed casing design is as follows:

Casing	Depth (MD)	Hole Size	Csg Size	Weight	Grade
Conductor	0'-60'	26"	16"	42.09#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5524'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5424'-12247'	6 1/8"	4 1/2"	11.6#	B80*, LTC New

Casing String				Casing Strength Properties			Minimum Design Factors		
Size	Weight (ppf)	Grade	Connection	Collapse (psi)	Burst (psi)	Tensile (1000lbs)	Collapse	Burst	Tension
9 5/8"	36	J55	STC	2020	3520	394	1.125	1.1	1.5
7"	26	J55	LTC	4320	4980	367	1.125	1.1	1.5
4.5"	11.6	B80	LTC	6350	7780	201	1.125	1.1	1.5

*B80 pipe specifications are attached.

Casing design is subject to revision based on geologic conditions encountered.

Gallo Canyon Unit 211H**SHL: SE/4 SE/4 Sec 26 T23N R6W, 257' FSL, 907' FEL****BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 1390' FEL****Sandoval, New Mexico****Lease Number: NMNM 131017X (NMNM 118128 & VO-9212)**

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1,500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

b) The proposed cementing program is as follows:

Casing	Depth (MD)	Cement Volume (sacks)	Cement Type & Yield	Designed TOC	Centralizers
Conductor	0'-60'	100 sks	Type I Neat 16 ppg	Surface	None
Surface	0'-500'	228 sks	Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5524'	100% open hole excess Stage 1 Lead: 514 sks Stage 1 Tail: 392 sks	Lead: PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk Tail: Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 every 3 joints through water bearing zones
Production Liner	5424'-12247'	50% OH excess Stage 1 Blend Total: 381sks	Blend: Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwoc Potassium Chloride + 0.25lbs/sack Cello Flake + 0.5% bwoc CD-32 + 1.15% bwoc FL-52A + 60 lbs/sack Calcium Carbonate + 124.4% Fresh Water. Yield 2.63 cuft/sk	Liner Hanger	N/A

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 on 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 minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. WELL PLAN & DIRECTIONAL DRILLING PROGRAM

The proposed horizontal well will have a kick off point of 600'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5156'/12247'	Gallup

Gallo Canyon Unit 211H

SHL: SE/4 SE/4 Sec 26 T23N R6W, 257' FSL, 907' FEL

BHL: SW/4 SE/4 Sec 36 T23N R6W, 330' FSL, 1390' FEL

Sandoval, New Mexico

Lease Number: NMNM 131017X (NMNM 118128 & VO-9212)

6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60'/60'	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0'-500'/500'	Fresh Water	8.3-10	60-70	NC
8 3/4"	500'/500'-5180'/5524'	Fresh Water LSND	8.3-10	40-50	8-10

b) Intermediate Casing Point to TD:

Hole Size (in)	Depth (TVD/MD)	Mud Type	Density (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	5180'/5524'- 5156'/12247'	Fresh Water LSND	8.3-10	15-25	<15

c) There will be sufficient mud on location to control a blowout should one occur. Mud flow and volume will be monitored both visually and with electronic pit volume totalizers. Mud tests shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

✓ d) 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. 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 EPA-approved hazardous waste facility. Fresh water cuttings will be disposed of at Basin Disposal, Inc. and/or Industrial Ecosystems, Inc. The location will be lined in accordance with the Surface Use Plan of Operations.

7. TESTING, CORING, & LOGGING

- a) Drill Stem Testing - None anticipated.
- b) Coring - None anticipated.
- c) Mudd Logging - Mud loggers will be on location from kick off point to TD.
- d) Logging - See below.

Cased Hole:

CBL/CCL/GR/VDL will be run as needed for perforating control.

8. ABNORMAL PRESSURES & HYDROGEN SULFIDE

The anticipated bottom hole pressure is +/- 2425 psi based on a 9.0 ppg at 5181' TVD of the horizontal lateral target. No abnormal pressure or temperatures are anticipated.

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 on June 1, 2016. It is anticipated that 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 approximately 20 days.

LOC: SE/4 SE/4 Sec 26 T23N R6W, 257' FSL, 907' FE County: Sandoval WELL: Gallo Canyon Unit 211H			Encana Oil & Gas (USA) Inc.			ENG: 0 RIG: Unassigned GLE: 6870 RKBE: 6886			1/20/16
WELL SUMMARY									
MWD	OPEN HOLE	FORM	DEPTH			HOLE	CASING	MW	DEVIATION
LWD	LOGGING		TVD	MD		SIZE	SPECS	MUD TYPE	INFORMATION
			60	60'		26	16" 42.09# 100sx Type I Neat 16.0ppg cmt	Fresh wtr 8.3-9.2	
Multi-Well pad take survey every stand and run anti-collision report prior to spud	None	San Jose Fn.	0						
		Nacimiento Fn. 9 5/8" Csg	surface 500	500.00		12 1/4	9 5/8" 36ppf J55 LTC TOC Surface with 100% OH Excess: 228 sks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A + 58.9% Fresh Water.	Fresh wtr 8.3-10	Vertical <1"
Survey Every 60'-120', updating anticollision report after surveys. Stop operations and contact drilling engineer if separation factor approaches 1.5 Surveys every 30' through the curve	No OH logs	Ojo Alamo Ss. Kirtland Shale	1,312 1,418						
		Fruitland Coal	1,594						
		Pictured Cliffs Ss. Lewis Shale	1,846 1,963						
		Cliffhouse Ss. Mene'ee Fn.	2,669 3,395						
		Point Lookout Ss. Mancos Shale	4,087 4,283						
		KOP	600	600					
		Mancos Silt	4,872						
		Gallup Fn.	5,128						
		7" Csg	5,180	5,524'					
Surveys every stand to TD unless directed otherwise by Geologist MWD Gamma Directional	No OH Logs	Horizontal Target TD	5,181 5,156	12,247		6 1/8	100' overlap at liner top		Horz Inc/TVD 90.2deg/5181ft
		Base Gallup	5,439				6724' Drilled Lateral		TD = 12247.1 MD
							4 1/2" 11.6ppf SB80 LTC TOC @ hanger (50% OH excess) Stage 1 Total: 381sks Stage 1 Blend: 381 sks Premium Lite High Strength FM + 0.7% bwoc R-3 + 3% bwow Potassium Chloride + 0.25lbs/sack Cello Flake + 0.5% bwoc CD-32 + 1.15% bwoc FL-52A + 60 lbs/sack Calcium Carbonate + 124.4% Fresh Water. Yield 2.63 cuft/sk.	WBM 8.3-10	

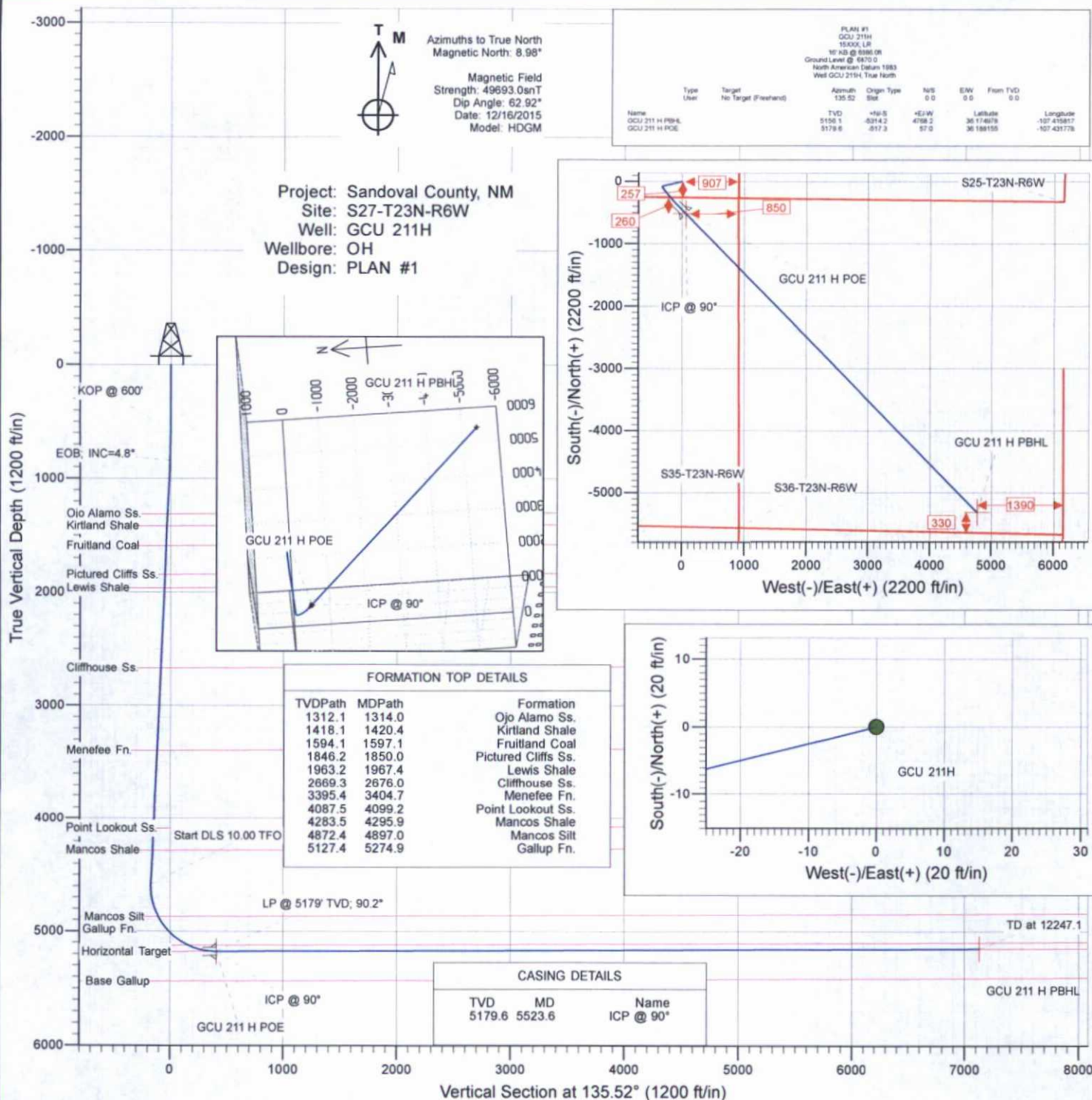
NOTES:

- 1) Drill with 26" bit to 60', set 16" 42.09ppf conductor pipe
- 2) Drill surface to 500', R&C 9 5/8" casing
- 3) N/U BOP and surface equipment
- 4) Drill to KOP of 600', 8 3/4 inch holesize
- 5) Start curve at 10deg/100' build rate
- 6) Drill to csg point of 5524' MD
- 7) R&C 7" csg, circ cmt to surface
- 8) Land at ~55 deg, drill lateral to 12247' run 4 1/2 inch cemented liner



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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	839.8	4.80	256.21	839.5	-2.4	-9.7	2.00	256.21	-5.1	
4	4597.2	4.80	256.21	4593.7	-77.3	-314.8	0.00	0.00	-165.4	
5	5523.6	90.20	135.52	5179.6	-517.3	57.0	10.00	-120.59	409.0	GCU 211 H POE
6	12247.1	90.20	135.52	5156.1	-5314.2	4768.2	0.00	0.00	7132.5	GCU 211 H PBHL



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well GCU 211H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	16' KB @ 6886.0ft
Project:	Sandoval County, NM	MD Reference:	16' KB @ 6886.0ft
Site:	S27-T23N-R6W	North Reference:	True
Well:	GCU 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Sandoval County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	S27-T23N-R6W				
Site Position:		Northing:	1,890,314.91 ft	Latitude:	36.189128
From:	Lat/Long	Easting:	1,285,261.84 ft	Longitude:	-107.453592
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-0.71 °

Well	GCU 211H					
Well Position	+N/-S	0.0 ft	Northing:	1,890,399.56 ft	Latitude:	36.189576
	+E/-W	0.0 ft	Easting:	1,291,644.07 ft	Longitude:	-107.431971
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,870.0 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/16/2015	8.98	62.92	49,693

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	135.52

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
839.8	4.80	256.21	839.5	-2.4	-9.7	2.00	2.00	0.00	256.21	
4,597.2	4.80	256.21	4,583.7	-77.3	-314.8	0.00	0.00	0.00	0.00	
5,523.6	90.20	135.52	5,179.6	-517.3	57.0	10.00	9.22	-13.03	-120.59	GCU 211 H POE
12,247.1	90.20	135.52	5,156.1	-5,314.2	4,768.2	0.00	0.00	0.00	0.00	GCU 211 H PBHL

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU 211H
Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference: Well GCU 211H
TVD Reference: 16' KB @ 6886.0ft
MD Reference: 16' KB @ 6886.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	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	KOP @ 600'
700.0	2.00	256.21	700.0	-0.4	-1.7	-0.9	2.00	2.00	
800.0	4.00	256.21	799.8	-1.7	-6.8	-3.6	2.00	2.00	
839.8	4.80	256.21	839.5	-2.4	-9.7	-5.1	2.00	2.00	EOB; INC=4.8°
900.0	4.80	256.21	899.5	-3.6	-14.6	-7.7	0.00	0.00	
1,000.0	4.80	256.21	999.2	-5.6	-22.7	-12.0	0.00	0.00	
1,100.0	4.80	256.21	1,098.8	-7.6	-30.9	-16.2	0.00	0.00	
1,200.0	4.80	256.21	1,198.5	-9.6	-39.0	-20.5	0.00	0.00	
1,300.0	4.80	256.21	1,298.1	-11.6	-47.1	-24.8	0.00	0.00	
1,314.0	4.80	256.21	1,312.1	-11.8	-48.2	-25.3	0.00	0.00	Ojo Alamo Ss.
1,400.0	4.80	256.21	1,397.8	-13.6	-55.2	-29.0	0.00	0.00	
1,420.4	4.80	256.21	1,418.1	-14.0	-56.9	-29.9	0.00	0.00	Kirtland Shale
1,500.0	4.80	256.21	1,497.4	-15.6	-63.3	-33.3	0.00	0.00	
1,597.1	4.80	256.21	1,594.1	-17.5	-71.2	-37.4	0.00	0.00	Fruitland Coal
1,600.0	4.80	256.21	1,597.1	-17.5	-71.5	-37.5	0.00	0.00	
1,700.0	4.80	256.21	1,696.7	-19.5	-79.6	-41.8	0.00	0.00	
1,800.0	4.80	256.21	1,796.4	-21.5	-87.7	-46.1	0.00	0.00	
1,850.0	4.80	256.21	1,846.2	-22.5	-91.8	-48.2	0.00	0.00	Pictured Cliffs Ss.
1,900.0	4.80	256.21	1,896.0	-23.5	-95.8	-50.3	0.00	0.00	
1,967.4	4.80	256.21	1,963.2	-24.9	-101.3	-53.2	0.00	0.00	Lewis Shale
2,000.0	4.80	256.21	1,995.7	-25.5	-103.9	-54.6	0.00	0.00	
2,100.0	4.80	256.21	2,095.3	-27.5	-112.0	-58.9	0.00	0.00	
2,200.0	4.80	256.21	2,195.0	-29.5	-120.2	-63.1	0.00	0.00	
2,300.0	4.80	256.21	2,294.6	-31.5	-128.3	-67.4	0.00	0.00	
2,400.0	4.80	256.21	2,394.3	-33.5	-136.4	-71.7	0.00	0.00	
2,500.0	4.80	256.21	2,493.9	-35.5	-144.5	-75.9	0.00	0.00	
2,600.0	4.80	256.21	2,593.6	-37.5	-152.6	-80.2	0.00	0.00	
2,676.0	4.80	256.21	2,669.3	-39.0	-158.8	-83.5	0.00	0.00	Cliffhouse Ss.
2,700.0	4.80	256.21	2,693.2	-39.5	-160.8	-84.5	0.00	0.00	
2,800.0	4.80	256.21	2,792.9	-41.5	-168.9	-88.7	0.00	0.00	
2,900.0	4.80	256.21	2,892.5	-43.5	-177.0	-93.0	0.00	0.00	
3,000.0	4.80	256.21	2,992.2	-45.4	-185.1	-97.3	0.00	0.00	
3,100.0	4.80	256.21	3,091.8	-47.4	-193.2	-101.5	0.00	0.00	
3,200.0	4.80	256.21	3,191.5	-49.4	-201.4	-105.8	0.00	0.00	
3,300.0	4.80	256.21	3,291.1	-51.4	-209.5	-110.1	0.00	0.00	
3,400.0	4.80	256.21	3,390.8	-53.4	-217.6	-114.3	0.00	0.00	
3,404.7	4.80	256.21	3,395.4	-53.5	-218.0	-114.5	0.00	0.00	Menefee Fn.
3,500.0	4.80	256.21	3,490.4	-55.4	-225.7	-118.6	0.00	0.00	
3,600.0	4.80	256.21	3,590.1	-57.4	-233.8	-122.9	0.00	0.00	
3,700.0	4.80	256.21	3,689.7	-59.4	-241.9	-127.1	0.00	0.00	
3,800.0	4.80	256.21	3,789.4	-61.4	-250.1	-131.4	0.00	0.00	
3,900.0	4.80	256.21	3,889.0	-63.4	-258.2	-135.7	0.00	0.00	
4,000.0	4.80	256.21	3,988.7	-65.4	-266.3	-139.9	0.00	0.00	
4,099.2	4.80	256.21	4,087.5	-67.4	-274.3	-144.2	0.00	0.00	Point Lookout Ss.
4,100.0	4.80	256.21	4,088.3	-67.4	-274.4	-144.2	0.00	0.00	
4,200.0	4.80	256.21	4,188.0	-69.4	-282.5	-148.5	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
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Project: Sandoval County, NM
Site: S27-T23N-R6W
Well: GCU 211H
Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference: Well GCU 211H
TVD Reference: 16' KB @ 6886.0ft
MD Reference: 16' KB @ 6886.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,295.9	4.80	256.21	4,283.5	-71.3	-290.3	-152.6	0.00	0.00	Mancos Shale
4,300.0	4.80	256.21	4,287.6	-71.4	-290.7	-152.7	0.00	0.00	
4,400.0	4.80	256.21	4,387.3	-73.4	-298.8	-157.0	0.00	0.00	
4,500.0	4.80	256.21	4,486.9	-75.3	-306.9	-161.3	0.00	0.00	
4,597.2	4.80	256.21	4,583.7	-77.3	-314.8	-165.4	0.00	0.00	Start DLS 10.00 TFO -120.59
4,600.0	4.66	253.19	4,586.6	-77.3	-315.0	-165.5	10.00	-4.86	
4,700.0	8.85	163.12	4,686.1	-85.9	-316.7	-160.6	10.00	4.20	
4,800.0	18.30	148.13	4,783.2	-106.7	-306.1	-138.4	10.00	9.44	
4,897.0	27.83	143.39	4,872.4	-137.8	-284.5	-101.0	10.00	9.82	Mancos Silt
4,900.0	28.12	143.29	4,875.0	-139.0	-283.7	-99.6	10.00	9.88	
5,000.0	38.03	140.82	4,958.7	-181.8	-250.0	-45.5	10.00	9.91	
5,100.0	47.97	139.26	5,031.7	-234.0	-206.2	22.4	10.00	9.94	
5,200.0	57.93	138.12	5,091.9	-293.8	-153.6	102.0	10.00	9.96	
5,274.9	65.40	137.42	5,127.4	-342.6	-109.3	167.9	10.00	9.97	Gallup Fn.
5,300.0	67.90	137.21	5,137.4	-359.5	-93.7	190.9	10.00	9.97	
5,400.0	77.87	136.42	5,166.8	-429.1	-28.3	286.3	10.00	9.97	
5,500.0	87.85	135.69	5,179.2	-500.5	40.4	385.4	10.00	9.97	
5,523.6	90.20	135.52	5,179.6	-517.3	57.0	409.0	10.00	9.97	LP @ 5179' TVD; 90.2° - ICP @ 90°
5,600.0	90.20	135.52	5,179.3	-571.8	110.5	485.4	0.00	0.00	
5,700.0	90.20	135.52	5,179.0	-643.2	180.6	585.4	0.00	0.00	
5,800.0	90.20	135.52	5,178.6	-714.5	250.6	685.4	0.00	0.00	
5,900.0	90.20	135.52	5,178.3	-785.9	320.7	785.4	0.00	0.00	
6,000.0	90.20	135.52	5,177.9	-857.2	390.8	885.4	0.00	0.00	
6,100.0	90.20	135.52	5,177.6	-928.6	460.8	985.4	0.00	0.00	
6,200.0	90.20	135.52	5,177.2	-999.9	530.9	1,085.4	0.00	0.00	
6,300.0	90.20	135.52	5,176.9	-1,071.2	601.0	1,185.4	0.00	0.00	
6,400.0	90.20	135.52	5,176.5	-1,142.6	671.1	1,285.4	0.00	0.00	
6,500.0	90.20	135.52	5,176.2	-1,213.9	741.1	1,385.4	0.00	0.00	
6,600.0	90.20	135.52	5,175.8	-1,285.3	811.2	1,485.4	0.00	0.00	
6,700.0	90.20	135.52	5,175.5	-1,356.6	881.3	1,585.4	0.00	0.00	
6,800.0	90.20	135.52	5,175.1	-1,428.0	951.3	1,685.4	0.00	0.00	
6,900.0	90.20	135.52	5,174.8	-1,499.3	1,021.4	1,785.4	0.00	0.00	
7,000.0	90.20	135.52	5,174.4	-1,570.7	1,091.5	1,885.4	0.00	0.00	
7,100.0	90.20	135.52	5,174.1	-1,642.0	1,161.5	1,985.4	0.00	0.00	
7,200.0	90.20	135.52	5,173.7	-1,713.3	1,231.6	2,085.4	0.00	0.00	
7,300.0	90.20	135.52	5,173.4	-1,784.7	1,301.7	2,185.4	0.00	0.00	
7,400.0	90.20	135.52	5,173.0	-1,856.0	1,371.8	2,285.4	0.00	0.00	
7,500.0	90.20	135.52	5,172.7	-1,927.4	1,441.8	2,385.4	0.00	0.00	
7,600.0	90.20	135.52	5,172.3	-1,998.7	1,511.9	2,485.4	0.00	0.00	
7,700.0	90.20	135.52	5,172.0	-2,070.1	1,582.0	2,585.4	0.00	0.00	
7,800.0	90.20	135.52	5,171.6	-2,141.4	1,652.0	2,685.4	0.00	0.00	
7,900.0	90.20	135.52	5,171.3	-2,212.8	1,722.1	2,785.4	0.00	0.00	
8,000.0	90.20	135.52	5,170.9	-2,284.1	1,792.2	2,885.4	0.00	0.00	
8,100.0	90.20	135.52	5,170.6	-2,355.4	1,862.2	2,985.4	0.00	0.00	
8,200.0	90.20	135.52	5,170.2	-2,426.8	1,932.3	3,085.4	0.00	0.00	
8,300.0	90.20	135.52	5,169.9	-2,498.1	2,002.4	3,185.4	0.00	0.00	
8,400.0	90.20	135.52	5,169.5	-2,569.5	2,072.5	3,285.4	0.00	0.00	
8,500.0	90.20	135.52	5,169.2	-2,640.8	2,142.5	3,385.4	0.00	0.00	
8,600.0	90.20	135.52	5,168.8	-2,712.2	2,212.6	3,485.4	0.00	0.00	
8,700.0	90.20	135.52	5,168.5	-2,783.5	2,282.7	3,585.4	0.00	0.00	
8,800.0	90.20	135.52	5,168.1	-2,854.9	2,352.7	3,685.4	0.00	0.00	
8,900.0	90.20	135.52	5,167.8	-2,926.2	2,422.8	3,785.4	0.00	0.00	

Planning Report

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Wellbore: OH
Design: PLAN #1

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MD Reference: 16' KB @ 6886.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,000.0	90.20	135.52	5,167.4	-2,997.5	2,492.9	3,885.4	0.00	0.00	
9,100.0	90.20	135.52	5,167.1	-3,068.9	2,563.0	3,985.4	0.00	0.00	
9,200.0	90.20	135.52	5,166.7	-3,140.2	2,633.0	4,085.4	0.00	0.00	
9,300.0	90.20	135.52	5,166.4	-3,211.6	2,703.1	4,185.4	0.00	0.00	
9,400.0	90.20	135.52	5,166.0	-3,282.9	2,773.2	4,285.4	0.00	0.00	
9,500.0	90.20	135.52	5,165.7	-3,354.3	2,843.2	4,385.4	0.00	0.00	
9,600.0	90.20	135.52	5,165.3	-3,425.6	2,913.3	4,485.4	0.00	0.00	
9,700.0	90.20	135.52	5,165.0	-3,496.9	2,983.4	4,585.4	0.00	0.00	
9,800.0	90.20	135.52	5,164.6	-3,568.3	3,053.4	4,685.4	0.00	0.00	
9,900.0	90.20	135.52	5,164.3	-3,639.6	3,123.5	4,785.4	0.00	0.00	
10,000.0	90.20	135.52	5,163.9	-3,711.0	3,193.6	4,885.4	0.00	0.00	
10,100.0	90.20	135.52	5,163.6	-3,782.3	3,263.7	4,985.4	0.00	0.00	
10,200.0	90.20	135.52	5,163.2	-3,853.7	3,333.7	5,085.4	0.00	0.00	
10,300.0	90.20	135.52	5,162.9	-3,925.0	3,403.8	5,185.4	0.00	0.00	
10,400.0	90.20	135.52	5,162.5	-3,996.4	3,473.9	5,285.4	0.00	0.00	
10,500.0	90.20	135.52	5,162.2	-4,067.7	3,543.9	5,385.4	0.00	0.00	
10,600.0	90.20	135.52	5,161.8	-4,139.0	3,614.0	5,485.4	0.00	0.00	
10,700.0	90.20	135.52	5,161.5	-4,210.4	3,684.1	5,585.4	0.00	0.00	
10,800.0	90.20	135.52	5,161.2	-4,281.7	3,754.2	5,685.4	0.00	0.00	
10,900.0	90.20	135.52	5,160.8	-4,353.1	3,824.2	5,785.4	0.00	0.00	
11,000.0	90.20	135.52	5,160.5	-4,424.4	3,894.3	5,885.4	0.00	0.00	
11,100.0	90.20	135.52	5,160.1	-4,495.8	3,964.4	5,985.4	0.00	0.00	
11,200.0	90.20	135.52	5,159.8	-4,567.1	4,034.4	6,085.4	0.00	0.00	
11,300.0	90.20	135.52	5,159.4	-4,638.5	4,104.5	6,185.4	0.00	0.00	
11,400.0	90.20	135.52	5,159.1	-4,709.8	4,174.6	6,285.4	0.00	0.00	
11,500.0	90.20	135.52	5,158.7	-4,781.1	4,244.6	6,385.4	0.00	0.00	
11,600.0	90.20	135.52	5,158.4	-4,852.5	4,314.7	6,485.4	0.00	0.00	
11,700.0	90.20	135.52	5,158.0	-4,923.8	4,384.8	6,585.4	0.00	0.00	
11,800.0	90.20	135.52	5,157.7	-4,995.2	4,454.9	6,685.4	0.00	0.00	
11,900.0	90.20	135.52	5,157.3	-5,066.5	4,524.9	6,785.4	0.00	0.00	
12,000.0	90.20	135.52	5,157.0	-5,137.9	4,595.0	6,885.4	0.00	0.00	
12,100.0	90.20	135.52	5,156.6	-5,209.2	4,665.1	6,985.4	0.00	0.00	
12,200.0	90.20	135.52	5,156.3	-5,280.6	4,735.1	7,085.4	0.00	0.00	
12,247.1	90.20	135.52	5,156.1	-5,314.2	4,768.2	7,132.5	0.00	0.00	TD at 12247.1

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
GCU 211 H PBHL - plan hits target center - Point	0.00	0.00	5,156.1	-5,314.2	4,768.2	1,885,027.68	1,296,347.15	36.174978	-107.415817
GCU 211 H POE - plan hits target center - Point	0.00	0.00	5,179.6	-517.3	57.0	1,889,881.57	1,291,694.72	36.188155	-107.431778

Planning Report

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Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference: Well GCU 211H
TVD Reference: 16' KB @ 6886.0ft
MD Reference: 16' KB @ 6886.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
5,523.6	5,179.6	ICP @ 90°	7.000	7.500

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,314.0	1,312.0	Ojo Alamo Ss.		-0.20	135.52
1,420.4	1,418.0	Kirtland Shale		-0.20	135.52
1,597.1	1,594.0	Fruitland Coal		-0.20	135.52
1,850.0	1,846.0	Pictured Cliffs Ss.		-0.20	135.52
1,967.4	1,963.0	Lewis Shale		-0.20	135.52
2,676.0	2,669.0	Cliffhouse Ss.		-0.20	135.52
3,404.7	3,395.0	Menefee Fn.		-0.20	135.52
4,099.2	4,087.0	Point Lookout Ss.		-0.20	135.52
4,295.9	4,283.0	Mancos Shale		-0.20	135.52
4,897.0	4,872.0	Mancos Silt		-0.20	135.52
5,274.9	5,128.0	Gallup Fn.		-0.20	135.52

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	KOP @ 600'
839.8	839.5	-2.4	-9.7	EOB; INC=4.8°
4,597.2	4,583.7	-77.3	-314.8	Start DLS 10.00 TFO -120.59
5,523.6	5,179.6	-517.3	57.0	LP @ 5179' TVD; 90.2°
12,247.1	5,156.1	-5,314.2	4,768.2	TD at 12247.1

Gallo Canyon Unit 211H

**SHL: SESE Section 26, T23N, R6W
257' FSL and 907' FEL**

**BHL: SWSE Section 36, T23N, R6W
330' FSL and 1390' FEL**

Sandoval County, New Mexico

Lease Numbers: NMNM 117562 & NMNM 109390

Unit Number: NMNM 131017X

The maximum cut was approximately 6.1 feet on the northwest corner (corner 6) and the maximum fill was approximately 6.4 feet on the southeast corner (corner 3).

4. As determined during the onsite on January 22, 2014, the following best management practices were implemented:
 - a. Water was diverted around the pad and silt traps were installed as needed upon interim reclamation.
5. Construction equipment included chain saws, a brush hog, scraper, maintainer, excavator, and dozer. Construction for the access road and well pad took approximately 4 weeks.

C. Pipeline

See the Plan of Development submitted with the final Standard SF-299 Application for authorization to construct, operate, maintain and terminate a 4,687 foot, up to 6-inch outside diameter, buried steel well connect pipeline that was submitted to the BLM on March 14, 2014.

7. METHODS FOR HANDLING WASTE

A. Cuttings

1. A closed-loop system will be used. Cuttings will be moved through a shaker system on the drill rig that separates drilling fluids from the cuttings. Cuttings will be stored onsite in above-ground storage tanks. Cuttings will be pulled from the storage tanks, mixed with saw dust or similar absorbent material, and disposed of at the Envirotech, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
2. The closed-loop system storage tanks will be adequately sized to ensure confinement of all fluids and will provide sufficient freeboard to prevent uncontrolled releases.
3. A 20-mil liner will be installed under tanks, pumps, ancillary facilities, and truck loading/unloading areas associated with the closed-loop system.

B. Drilling Fluids

1. A closed-loop system will be used. Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. Residual fluids will be vacuumed from the storage tanks and disposed of at Basin Disposal, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
2. The closed-loop system storage tanks will be adequately sized to ensure confinement of all fluids and will provide sufficient freeboard to prevent uncontrolled releases.
3. The closed-loop system storage tanks will be placed in bermed secondary containment sized to accommodate a minimum of 110 percent of the volume of the largest storage tank.
4. A 20-mil liner will be installed under tanks, pumps, ancillary facilities, and truck loading/unloading areas associated with the closed-loop system.

C. Flowback Water

1. The water-based solution that flows back to the surface during and after completion operations will be placed in storage tanks on the location.

ENCANA OIL & GAS (USA) INC.

GALLO CANYON UNIT #211H

LOCATED IN THE SE/4 SE/4 OF SECTION 26,
T23N, R6W, N.M.P.M.,
SANDOVAL COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 64 & HWY 550 IN BLOOMFIELD, GO SOUTH ON HWY 550, 54.4 MILES TO INDIAN ROUTE 474 (COUNSELOR, NM).
- 2) TURN RIGHT ONTO ISR 474 AND GO 1.7 MILES TO A DIRT ROAD ON LEFT.
- 3) TURN LEFT AND GO 0.9 MILES TO EXISTING GALLO CANYON UNIT WELL PAD.

WELL FLAG LOCATED AT LAT. 36.189576° N, LONG. 107.431971° W (NAD 83).

WELLHEAD BLOWOUT CONTROL SYSTEM

encana

Well Name and Number:
Gallo Canyon Unit 211H

