

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

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

5. Lease Serial No.  
NMNM 112955  
6. If Indian, Allottee or Tribe Name  
N/A

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. N/A
2. Name of Operator Encana Oil & Gas (USA) Inc.		8. Well Name and No. Good Times N02-2410 02H
3a. Address 370 17th Street, Suite 1700, Denver, CO 80202	3b. Phone No. (include area code) (720) 876-3533	9. API Well No. Pending 30-045-35562
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 343' FSL, 1351' FWL Section 2, Township 24N, Range 10W BHL: 330' FSL, 2070' FWL Section 11, Township 24N, Range 10W		10. Field and Pool or Exploratory Area Basin Mancos Gas
		11. Country or Parish, State San Juan County, New Mexico

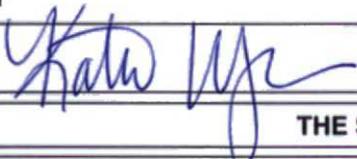
**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Withdraw APD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

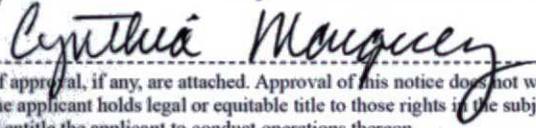
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths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

Encana Oil & Gas (USA) Inc. (Encana) submitted an Application for Permit to Drill for the Good Times N02-2410 02H well on June 6, 2014. The permit was never approved. Encana wishes to withdraw this application, because this well is no longer a part of Encana's development plan.

OIL CONS. DIV DIST. 3  
OCT 13 2016

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Katie Wegner		Title Senior Regulatory Analyst
Signature 		Date 10/03/2016

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by 	Title LLE	Date 10-7-16
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office FFO	

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.

(Instructions on page 2)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

JUN 09 2014

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

Farmington Field Office  
Bureau of Land Management

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM 112955
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Encana Oil & Gas (USA) Inc.		7. Unit or CA Agreement, Name and No.
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202		8. Lease Name and Well No. Good Times N02-2410 02H
3b. Phone No. (include area code) 720-876-3533		9. API Well No. 30-045-35562
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 343' FSL and 1351' FWL Section 2, T24N, R10W At proposed prod. zone 330' FSL and 2070' FWL Section 11, T24N, R10W		10. Field and Pool, or Exploratory Basin Mancos
14. Distance in miles and direction from nearest town or post office* +/- 37.1 miles southwest of the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM		11. Sec., T. R. M. or Blk. and Survey or Area Section 11, T24N, R10W NMPM BHL SHL Section 2, T24N R10W
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 Section 11, T24N, R10W	16. No. of acres in lease NMNM 112955 - 1761.69	17. Spacing Unit dedicated to this well 320 acres - W2 Section 11, T24N, R10W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Good Times N02-2410 01H +/- 30' of SHL	19. Proposed Depth 5,366' TVD/10,527' MD	20. BLM/BIA Bond No. on file COB-000235
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,865' GL, 6,881' KB	22. Approximate date work will start* 02/15/2015	23. Estimated duration 20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- |  |   |
|--|---|
| 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 required by the BLM.             |

25. Signature 	Name (Printed/Typed) Katie Wegner	Date 6/1/14
Title Regulatory Analyst		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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.

(Continued on page 2)

\*(Instructions on page 2)

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

NMOCD

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

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

**DISTRICT I**  
1005 E French Dr., Hobbs, N.M. 88240  
Phone: (505) 506-6101 Fax: (505) 506-0790

**DISTRICT II**  
611 E First St., Artesia, N.M. 88210  
Phone: (505) 748-1200 Fax: (505) 748-0790

**DISTRICT III**  
1000 Mc Bruce Rd., Arvin, N.M. 87410  
Phone: (505) 524-0170 Fax: (505) 524-0270

**DISTRICT IV**  
1290 E St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 470-0600 Fax: (505) 470-0400

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 1, 2011

RECEIVED

Submit one copy to appropriate District Office

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

JUN 09 2014

Farmington Field Office  AMENDED REPORT  
Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 97232	<sup>3</sup> Pool Name BASIN MANCOS
<sup>4</sup> Property Code	<sup>5</sup> Property Name GOOD TIMES NO2-2410	<sup>6</sup> Well Number 02H
<sup>7</sup> OGRD No. 282327	<sup>8</sup> Operator Name ENCANA OIL & GAS (USA) INC.	<sup>9</sup> Elevation 8865.3'

<sup>10</sup> Surface Location

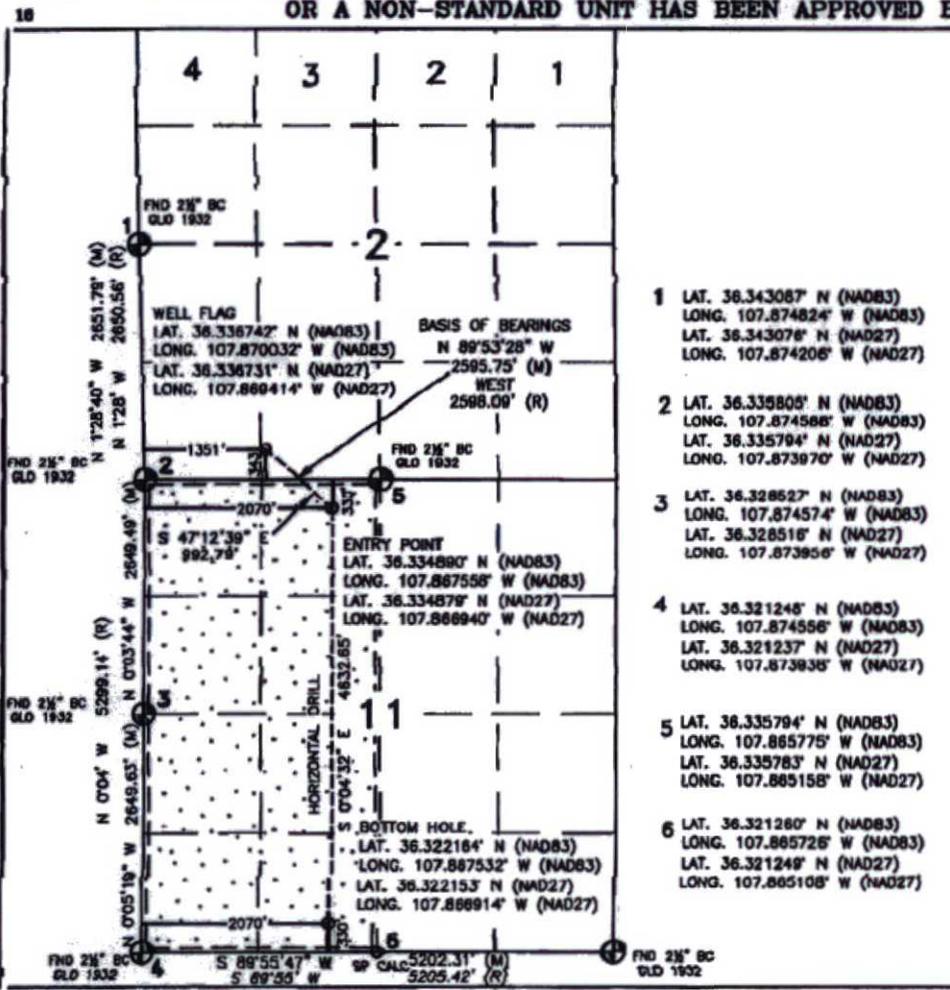
Ul. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	24N	10W		343'	SOUTH	1351'	WEST	SAN JUAN

<sup>11</sup> 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
N	11	24N	10W		350'	SOUTH	2070'	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 320.00 ACRES W/2 SEC. 11	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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 leased 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 is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

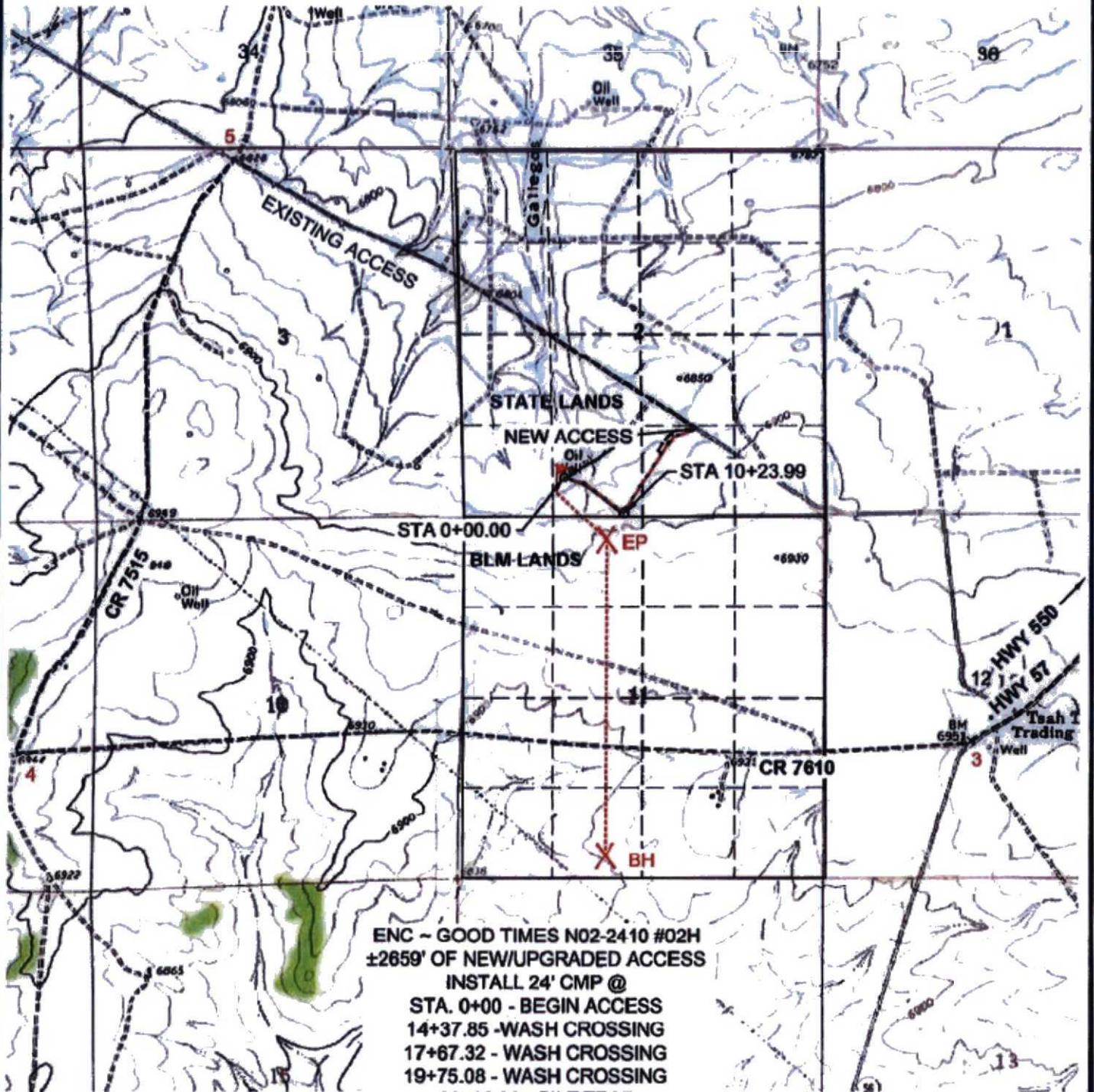
*Katie Weigner* 6/11/14  
Signature Date  
Katie Weigner  
Printed Name  
Katie.Weigner@encana.com  
E-mail Address

**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.

FEBRUARY 19, 2013  
Date of Survey  
Signature and Seal of Registered Surveyor  
DAVID R. RUSSELL  
REGISTERED PROFESSIONAL LAND SURVEYOR  
10201  
DAVID RUSSELL  
Certificate Number 10201

LATITUDE: 36.336742° N  
LONGITUDE: 107.870032° W  
DATUM: NAD 83

**ENCANA OIL & GAS (USA) INC.**  
GOOD TIMES N02-2410 #02H  
343' FSL & 1351' FWL  
LOCATED IN THE SE/4 SW/4 OF SECTION 2,  
T24N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
GROUND ELEVATION: 8864', NAVD 88  
±2659' OF NEW ACCESS ACROSS STATE LANDS



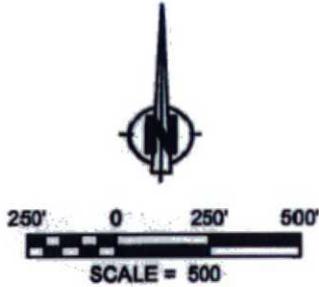
ENC - GOOD TIMES N02-2410 #02H  
±2659' OF NEW/UPGRADED ACCESS  
INSTALL 24' CMP @  
STA. 0+00 - BEGIN ACCESS  
14+37.85 - WASH CROSSING  
17+67.32 - WASH CROSSING  
19+75.08 - WASH CROSSING  
22+62.98 - SILT TRAP  
26+59.37 - END ACCESS

U.S.G.S. QUAD: BLANCO TRADING POST  
SCALE: 1" = 2000' (1:24,000)  
JOB No.: ENC070\_REV1  
DATE: 02/25/14



Scorpion Survey & Consulting, L.L.C.  
302 S. Ash  
Aztec, New Mexico 87410  
(505) 334-4007

**PROPOSED ACCESS FOR  
ENCANA OIL & GAS (USA) INC.  
GOOD TIMES N02-2410 #02H  
LOCATED IN THE SE/4 SW/4, & SW/4 SE/4  
OF SECTION 2,  
T24N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO**



**STA 0+00.00**  
S 71°59'10" W  
354.68'  
BEGIN @ EXISTING  
ROAD

**STA 0+20.48**  
EPCO P/L X-ING  
**STA 3+13.33**  
DUGAN P/L X-ING  
**STA 3+28.31**  
ENC P/L X-ING

**P.I. STA 3+54.68**  
S 33°10'21" W 1290.34'  
O/S DUGAN P/L 13' LT  
**STA 11+88.14**  
1/4 SECTION X-ING  
**STA 14+37.88**  
C/L WASH X-ING

**P.I. STA 16+45.18**  
S 88°34'24" W 54.50'  
O/S DUGAN P/L 20' LT  
**STA 16+82.57**  
PROPOSED P/L X-ING

**P.I. STA 16+99.68**  
N 53°33'41" W 675.26'  
O/S PROP P/L 15' RT

SEE DETAIL "A"

(TIE)  
N 31°59'07" E  
1489.32'

WELL FLAG  
GOOD TIMES N02-2410 #02H

SE/4 SW/4

SW/4 SE/4

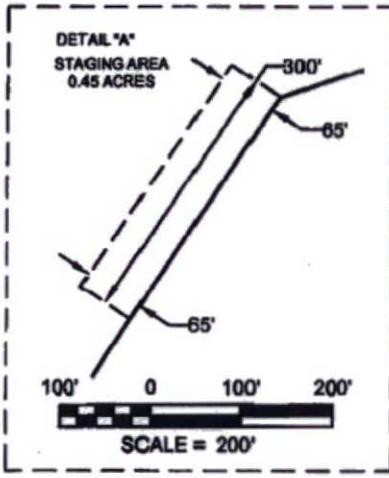
BASIS OF BEARINGS

N 89°53'25" W 2595.75' (M)  
WEST 2598.00' (R)

**STA 17+87.32**  
C/L WASH X-ING  
**STA 19+78.08**  
C/L WASH X-ING  
**STA 22+82.98**  
SILT TRAP FOR RUN OFF

**P.I. STA 23+74.94**  
N 72°29'16" W 284.43'  
O/S PROP P/L 15' RT

**STA 26+59.37**  
END ACCESS @ WELL PAD  
TIE TO WELL FLAG  
S 29°16'00" W - 243.76'



-- SURFACE OWNERSHIP --	
STATE LANDS	
SECTION 2 SW/4 SE/4	
0+00 TO 11+88.14	
1188.14 FT / 70.80 RODS	
SECTION 2 SE/4 SW/4	
11+88.14 TO 28+59.37	
1491.23 FT / 80.38 RODS	
TOTAL	
0+00 TO 28+59.37	
2859.37 FT / 181.17 RODS	
DATE OF SURVEY 02/20/14	JC.SA

1.1 BASIS OF BEARINGS: BETWEEN FOUND MONUMENTS AT THE SOUTHWEST CORNER AND THE SOUTH QUARTER CORNER OF SECTION 2, TOWNSHIP 24 NORTH, RANGE 10 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO. (LINE BEARS: N 89°53'25" W A DISTANCE OF 2598.00 FEET AS MEASURED BY G.P.S.)

2. LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

I, DAVID R. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

*David R. Russell*  
DAVID R. RUSSELL, P.L.S.  
NEW MEXICO L.S. #10201

DATE: 2/25/2014



Scorpion Survey & Consulting, L.L.O.  
302 S. Ash  
Aztec, New Mexico 87410  
(505) 334-4007

JOB No.: ENC070\_REV1 DATE: 02/25/14

**ENCANA OIL & GAS (USA) INC.**  
GOOD TIMES N02-2410 #02H  
343' FSL & 1351' FWL  
LOCATED IN THE SE/4 SW/4 OF SECTION 2,  
T24N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO

**DIRECTIONS**

- 1) FROM THE INTERSECTION OF HWY 64 & HWY 550, TRAVEL SOUTH ON HWY 550 FOR 28.2 MILES TO MP 123.4, THE INTERSECTION OF HWY 550 & HWY 57.
- 2) TURN RIGHT ONTO HWY 57 AND GO 3.1 MILES TO CR 7610.
- 3) TURN RIGHT ONTO CR 7610 AND GO 2.6 MILES TO CR 7515.
- 4) TURN RIGHT ONTO CR 7515 AND GO 1.8 MILES.
- 5) TURN RIGHT AND GO 1.4 MILES TO 2-TRACK TO BE UPGRADED.

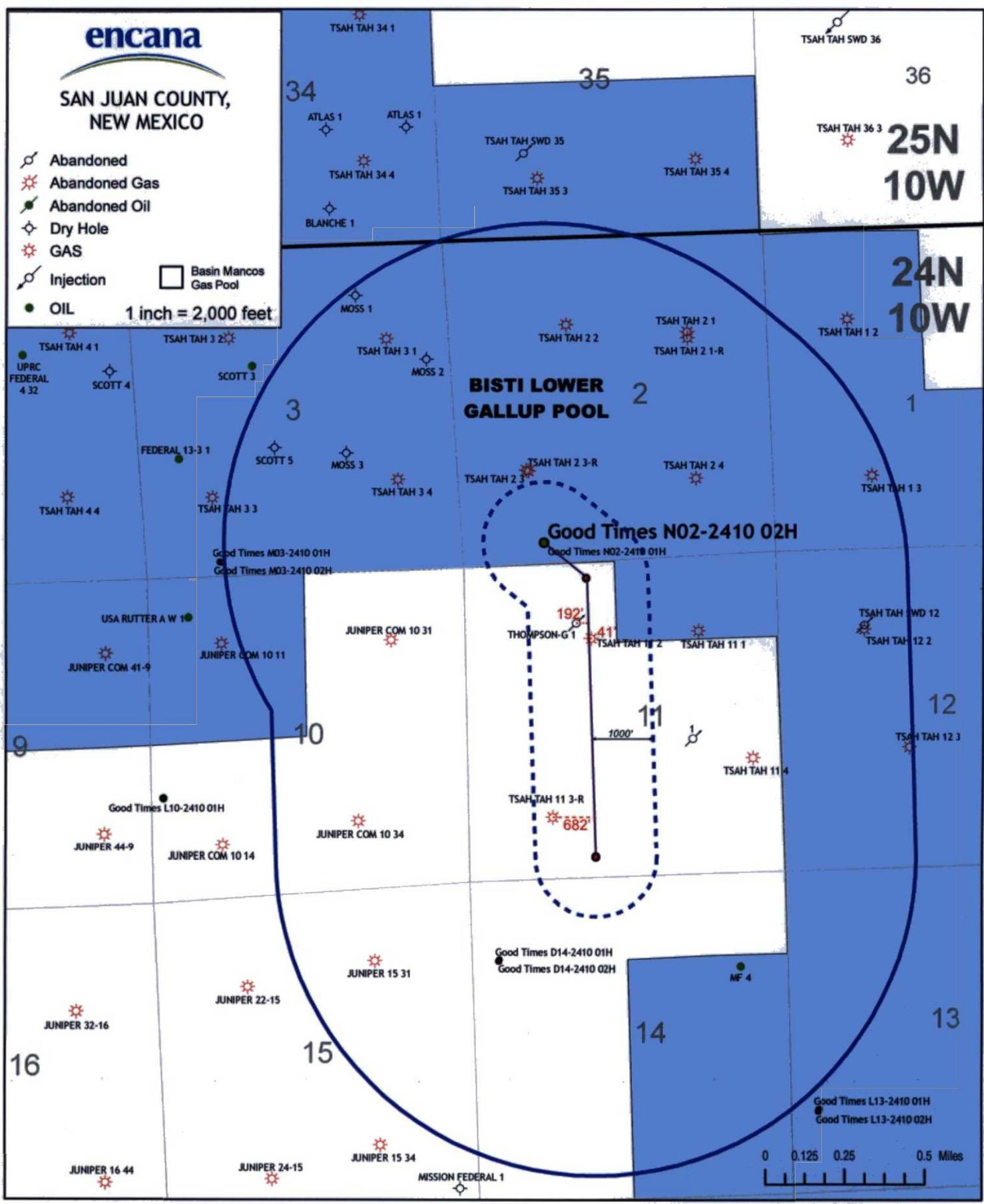
WELL FLAG LOCATED AT LAT. 36.336742° N, LONG.107.870032° W (NAD 83).



encana

SAN JUAN COUNTY,  
NEW MEXICO

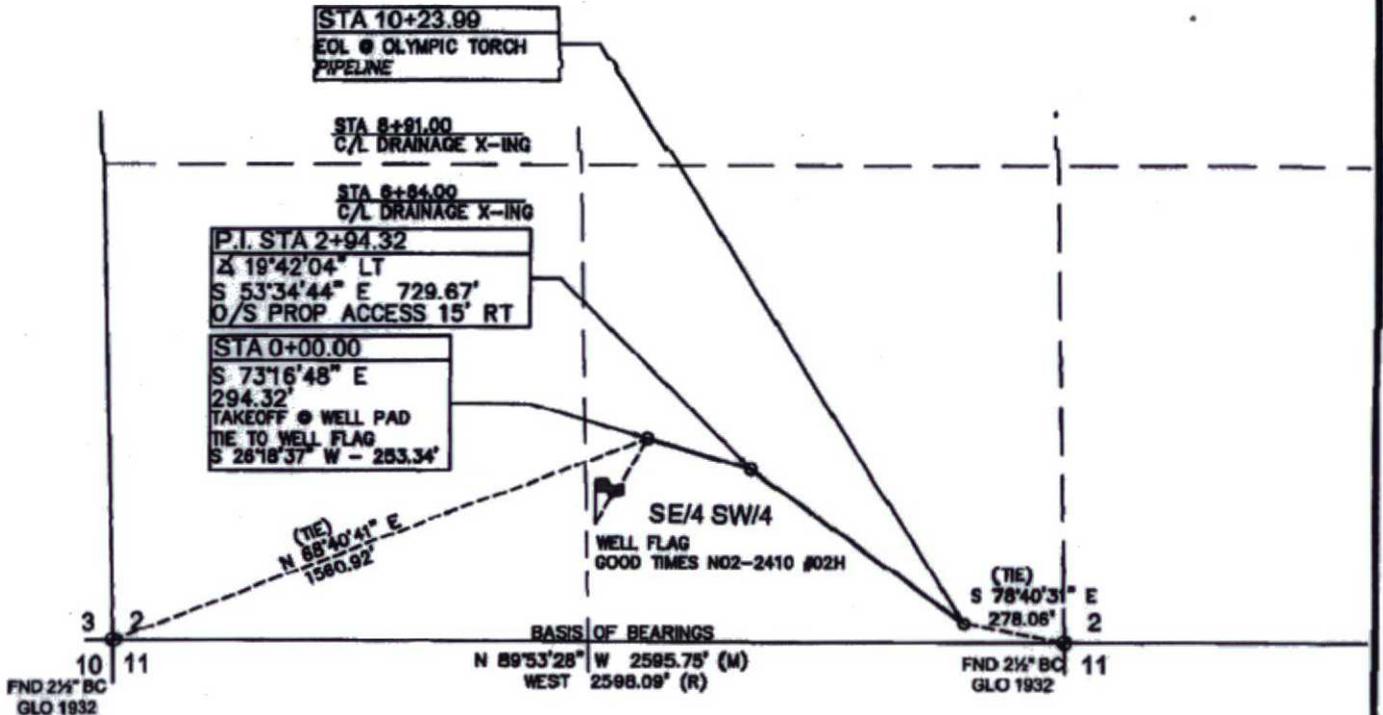
- Abandoned
  - Abandoned Gas
  - Abandoned Oil
  - Dry Hole
  - GAS
  - Injection
  - Basin Mancos Gas Pool
  - OIL
- 1 inch = 2,000 feet



**PROPOSED PIPELINE FOR  
ENCANA OIL & GAS (USA) INC.  
GOOD TIMES N02-2410 #02H  
LOCATED IN THE SE/4 SW/4 OF SECTION 2,  
T24N, R10W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO**



SURFACE OWNERSHIP	
STATE LANDS	
SECTION 2 SE/4 SW/4	
0+00 TO 10+23.99	
1023.99 FT / 82.06 RODS	
DATE OF SURVEY	02/20/14
	JLSA



1.) BASIS OF BEARING BETWEEN FOUND MONUMENTS AT THE SOUTHWEST CORNER AND THE SOUTH QUARTER CORNER OF SECTION 2, TOWNSHIP 24 NORTH, RANGE 10 WEST, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO, ARE BEARS, N 89°53'28" W A DISTANCE OF 2595.75 FEET AS MEASURED BY O.S.A.

2.) LOCATION OF UNDERGROUND UTILITIES DENOTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

I, DAVID R. RUSSELL, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAN MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.



*David R. Russell*  
DAVID R. RUSSELL, P.C.S.  
NEW MEXICO L.S. #10201

DATE 2/25/2014

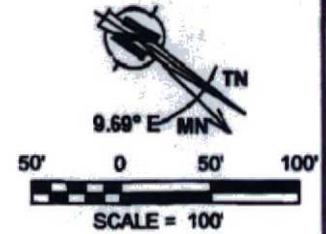


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Aztec, New Mexico 87410  
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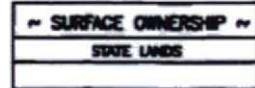
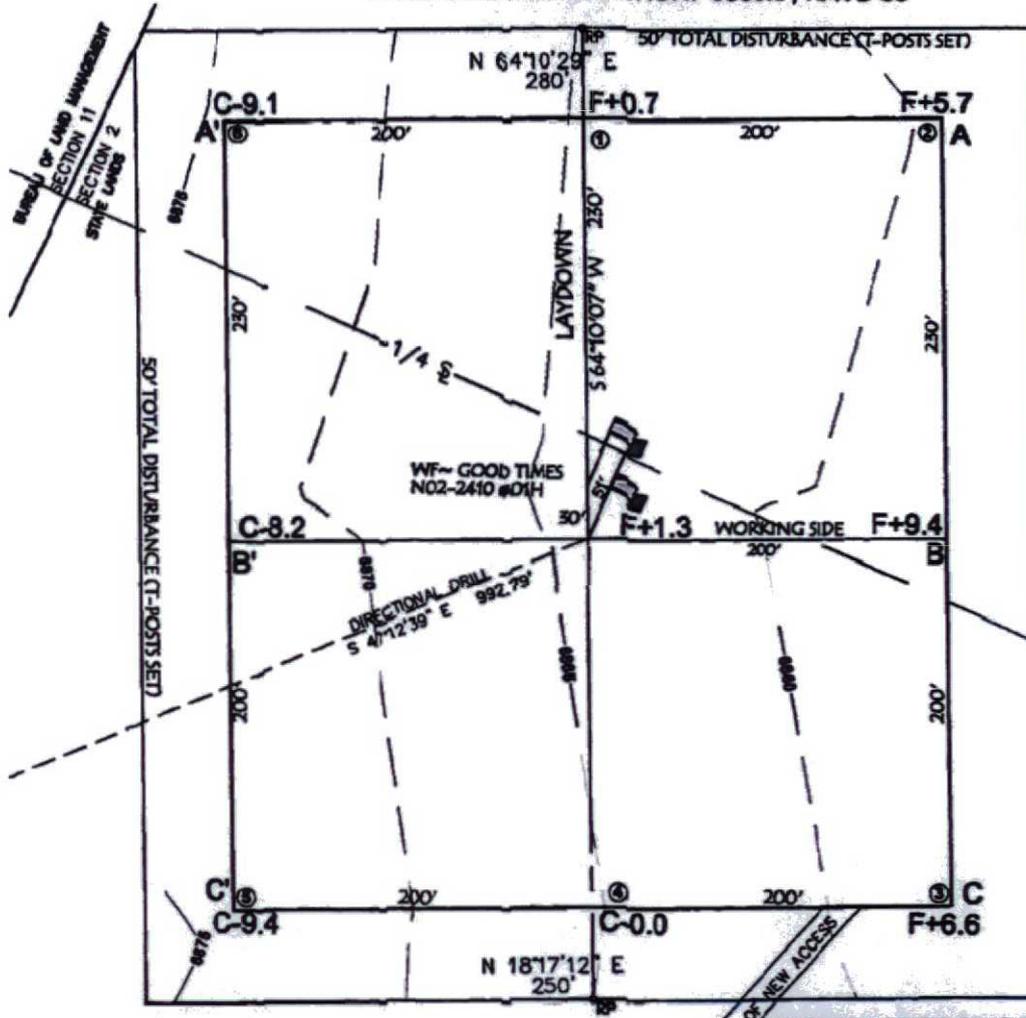
JOB No.: ENC070\_REV1 DATE: 02/25/14

**WELL FLAG**  
 LATITUDE: 36.336742° N  
 LONGITUDE: 107.870032° W  
 DATUM: NAD83

**ENCANA OIL & GAS (USA) INC.**  
 GOOD TIMES N02-2410 #02H  
 343' FSL & 1351' FWL  
 LOCATED IN THE SE/4 SW/4 OF SECTION 2,  
 T24N, R10W, N.M.P.M.,  
 SAN JUAN COUNTY, NEW MEXICO  
 GROUND ELEVATION: 6864', NAVD 88  
 FINISHED PAD ELEVATION: 6865.3', NAVD 88



- NOTES:**
- 1.) BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE SOUTHWEST CORNER AND THE SOUTH QUARTER CORNER OF SECTION 2, TOWNSHIP 24 NORTH, RANGE 10 WEST, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO. LINE BEARS: N 89°33'26" W A DISTANCE OF 2585.75 FEET AS MEASURED BY G.P.S.
  - 2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC COGS L1 PHASE CENTER. DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83. NAVD88 ELEVATIONS AS PREDICTED BY GED0003.
  - 3.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
  - 4.) T-POSTS HAVE BEEN SET TO DEFINE THE EDGE OF DISTURBANCE LIMITS WHICH ARE 50' OFFSETS FROM THE EDGE OF THE STAKED WELL PAD.



SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

TOTAL PERMITTED AREA  
 530' x 500' = 6.08 ACRES  
 SCALE: 1" = 100'  
 JOB No.: ENC070\_REV1  
 DATE: 02/25/14  
 DRAWN BY: TWT

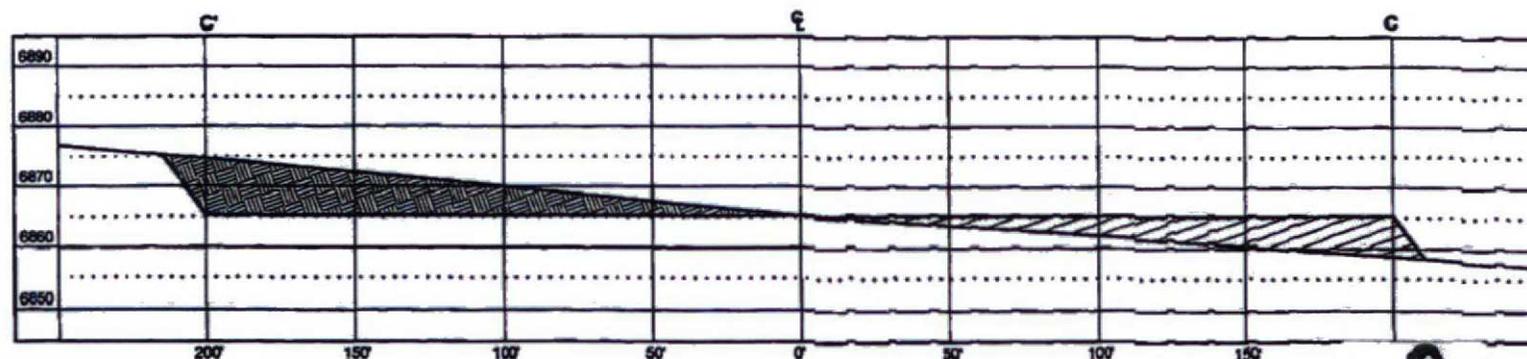
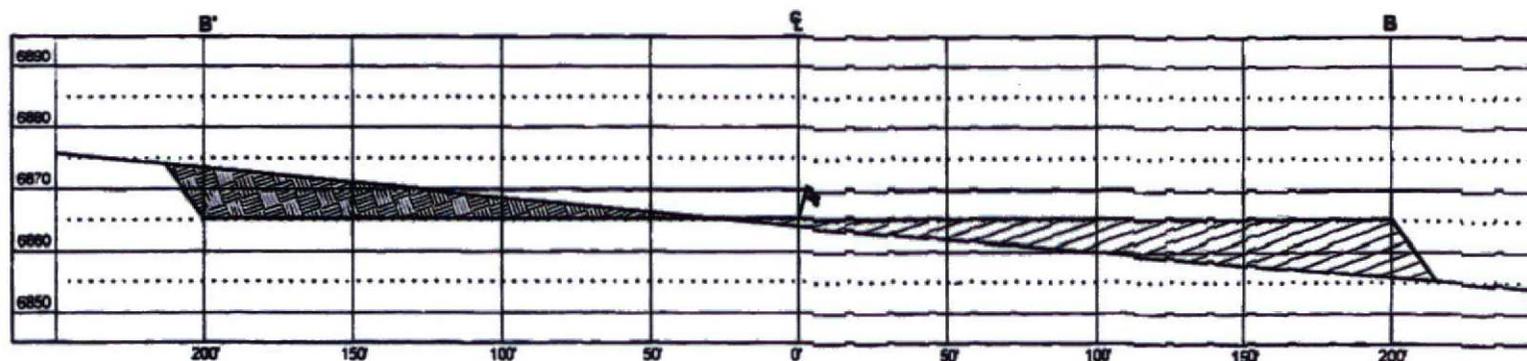
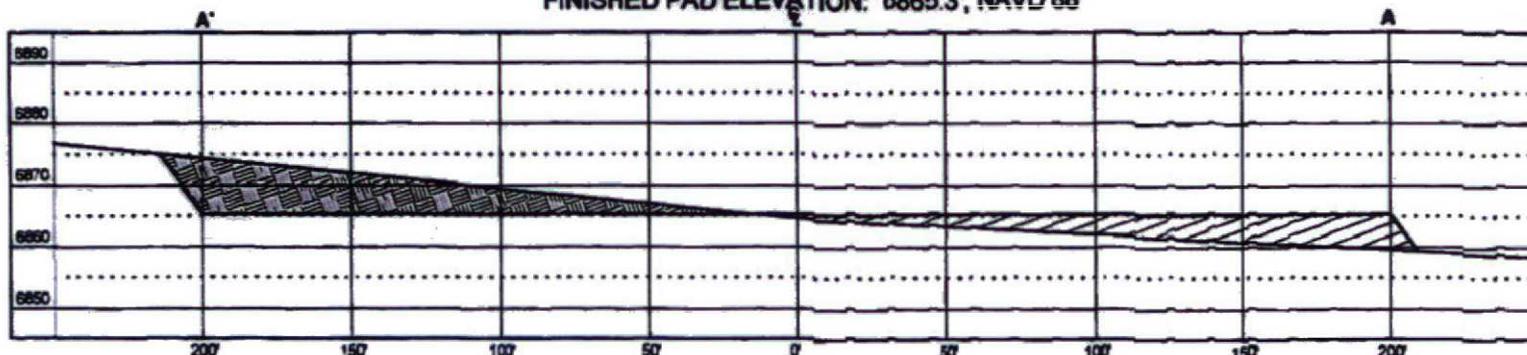
**NOTE:**  
 SCORPION SURVEY & CONSULTING, L.L.C. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.



**Scorpion Survey & Consulting, L.L.C.**  
 302 S. Ash  
 Aztec, New Mexico 87410  
 (505) 334-4007

LATITUDE: 36.336742° N  
 LONGITUDE: 107.870032° W  
 DATUM: NAD 83

**ENCANA OIL & GAS (USA) INC.**  
 GOOD TIMES N02-2410 #02H  
 343' FSL & 1351' FWL  
 LOCATED IN THE SE/4 SW/4 OF SECTION 2, T24N, R10W, N.M.P.M.,  
 SAN JUAN COUNTY, NEW MEXICO  
 GROUND ELEVATION: 6884', NAVD 88  
 FINISHED PAD ELEVATION: 6865.3', NAVD 88



VERT. SCALE: 1" = 30'  
 HORZ. SCALE: 1" = 60'  
 JOB No.: ENC070  
 DATE: 04/12/13

THIS DIAGRAM IS AN ESTIMATE  
 OF DIRT BALANCE AND IS NOT  
 INTENDED TO BE AN EXACT  
 MEASURE OF VOLUME



FILL



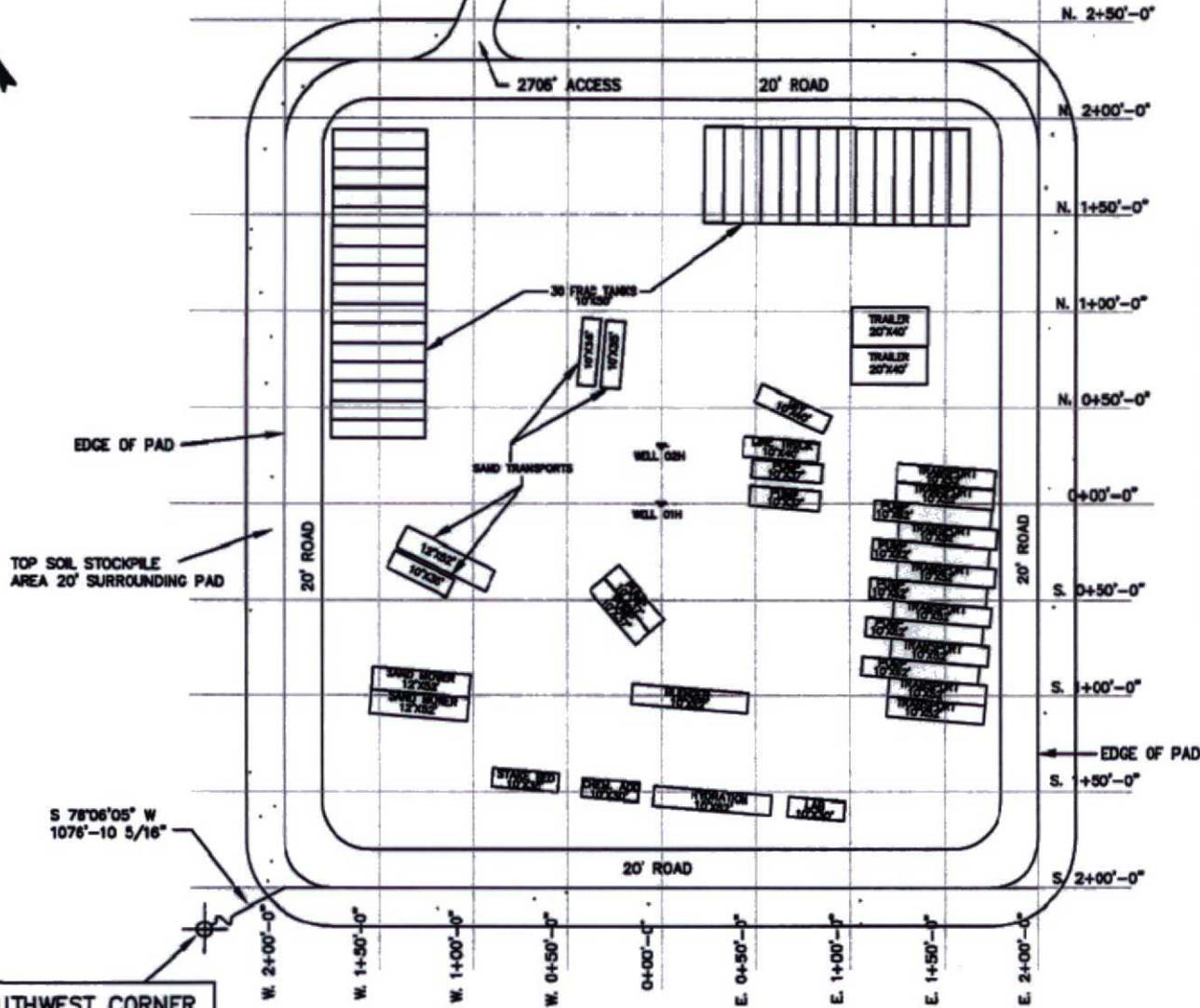
CUT



**Scorpion Survey &  
 Consulting, L.L.C.**  
 Aztec, New Mexico 87410  
 (505) 334-4007



Date and Time Saved: 2013-03-06, 9:59 AM



**SURFACE LOCATION**  
 LAT: 36.336742 N  
 LONG: 107.870032 W  
 NAD 1983

**POINT OF ENTRY**  
 LAT: 36.334890 N  
 LONG: 107.867558 W  
 NAD 1983

**BOTTOM HOLE**  
 LAT: 36.322164 N  
 LONG: 107.867532 W  
 NAD 1983

Sheet G-2

Drawings Must Comply with Current Drafting Standards (ISO-9000-5-0)

ENCANA CORPORATION, 10000 WEST 10TH AVENUE, DENVER, CO 80202

THE SOUTHWEST CORNER  
 SEC. 2, T.24N., R.10W.

NOTE: TYPICAL LAYOUT THAT MAY BE CHANGED  
 BASED ON SITE-SPECIFIC CONDITIONS AND  
 EQUIPMENT AVAILABILITY.

	4000 WEST 10TH AVENUE DENVER, COLORADO 80202 TEL: 303.733.2100 FAX: 303.733.2100
	10000 WEST 10TH AVENUE DENVER, COLORADO 80202 TEL: 303.733.2100 FAX: 303.733.2100
<b>ENCANA I.A.C.</b> TYPICAL COMPLETIONS LAYOUT	SHEET NO. 100000 DATE: 03/06/13
NEW MEXICO	PROJECT NO. CN-NV-A-3001A

**Good Times N02-2410 02H**  
**SHL: SESW Section 2, T24N, R10W**  
**343' FSL and 1351' FWL**  
**BHL: SESW Section 11, T24N, R10W**  
**330' FSL and 2070' FWL**  
**San Juan, New Mexico**

**Encana Oil & Gas (USA) Inc.**  
**Drilling Plan**

**1. ESTIMATED TOPS OF GEOLOGICAL MARKERS (TVD)**

The estimated tops of important geologic markers are as follows:

<b>Formation</b>	<b>Depth (TVD) units = feet</b>
Ojo Alamo Ss.	856
Kirtland Shale	1,010
Fruitland Coal	1,345
Pictured Cliffs Ss.	1,718
Lewis Shale	1,846
Cliffhouse Ss.	2,517
Menefee Fn.	3,247
Point Lookout Ss.	4,199
Mancos Shale	4,380
Mancos Silt	4,945
Gallup Fn.	5,213

The referenced surface elevation is 6865', KB 6881'

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

<b>Substance</b>	<b>Formation</b>	<b>Depth (TVD) units = feet</b>
Water/Gas	Fruitland Coal	1,345
Oil/Gas	Pictured Cliffs Ss.	1,718
Oil/Gas	Cliffhouse Ss.	2,517
Gas	Menefee Fn.	3,247
Oil/Gas	Point Lookout Ss.	4,199
Oil/Gas	Mancos Shale	4,380
Oil/Gas	Mancos Silt	4,945
Oil/Gas	Gallup Fn.	5,213

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

**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.

Good Times N02-2410 02H

SHL: SESW Section 2, T24N, R10W

343' FSL and 1351' FWL

BHL: SESW Section 11, T24N, R10W

330' FSL and 2070' FWL

San Juan, New Mexico

- 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
- 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'	30"	20"	94#	
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5800'	8 3/4"	7"	26#	J55, LTC New
Production Liner	5600'-10527'	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

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.

Good Times N02-2410 02H  
 SHL: SESW Section 2, T24N, R10W  
 343' FSL and 1351' FWL  
 BHL: SESW Section 11, T24N, R10W  
 330' FSL and 2070' FWL  
 San Juan, New Mexico

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'	314 sks	HALCEM™ SYSTEM + 2% CaCl <sub>2</sub> + 0.125lbm/sk Poly-E-Flake. 15.8 ppg, 1.174 cuft/sk	Surface	1 per joint on bottom 3 joints
Intermediate	0'-5800'	30% open hole excess Stage 1 Lead: 370 sks Stage 1 Tail: 380 sks Stage 2 Lead: 183 sks	Stage 1 Lead: HALCEM™ SYSTEM + 0.2% HR-5 + 5lbm/sk Kol-Seal + 0.125lbm/sk Poly-E-Flake. 12.3 ppg, 1.948 cuft/sk Stage 1 Tail: VARICEM™ CEMENT + .15% CFR-3 + 5lbm/sk Kol-Seal + 0.125% Poly-E-Flake. 13.5 ppg, 1.308 cuft/sk. Stage 2 Contingency: HALCEM™ SYSTEM + 5lbm/sk Kol-Seal + 0.125lbm/sk Poly-E-Flake. 12.3 ppg,	Surface	1 every 3 joints through water bearing zones
Production Liner	5600'-10527'	None - External Casing Packers	N/A	N/A	N/A

\*Production liner clarification: Utilizing external swell casing packer system for zonal isolation will not use cement in the production liner

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 4926'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5366'/10527'	Gallup

Good Times N02-2410 02H

SHL: SESW Section 2, T24N, R10W

343' FSL and 1351' FWL

BHL: SESW Section 11, T24N, R10W

330' FSL and 2070' FWL

San Juan, New Mexico

## 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'-5441'/5800'	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"	5441'/5800'- 5366'/10527'	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 +/- 2554 psi based on a 9.0 ppg at 5458' TVD of the horizontal lateral target. No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if H<sub>2</sub>S is encountered, the guidelines in Onshore Order No. 6 will be followed.

**Good Times N02-2410 02H**

**SHL: SESW Section 2, T24N, R10W**

**343' FSL and 1351' FWL**

**BHL: SESW Section 11, T24N, R10W**

**330' FSL and 2070' FWL**

**San Juan, New Mexico**

#### **9. ANTICIPATED START DATE AND DURATION OF OPERATIONS**

Drilling is estimated to commence on February 15, 2015. 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.







# Boomerang Tube LLC

## CASING (OR) TUBING DESCRIPTION AND PERFORMANCE PROPERTIES

Pipe Outside Diameter (ins)	_____	4.500
Pipe Wall Thickness (ins)	_____	0.250
Nominal Weight Per Foot (lbs)	_____	11.60
Thread Name	_____	Long Thread CSG
Grade Name	_____	SB-80
Pipe Minimum Yield (psi)	_____	80,000
Pipe Minimum Ultimate (psi)	_____	90,000
Coupling Minimum Yield (psi)	_____	80,000
Coupling Minimum Ultimate (psi)	_____	100,000
Coupling or Joint Outside Diameter (ins)	_____	5.000
Drift Diameter (ins)	_____	3.875
Plain End Weight per Foot (lbs)	_____	11.36
Joint Strength (lbs)	_____	201,000
Internal Yield (psi)	_____	7,780
Collapse Rating (psi)	_____	6,350

## MAXIMUM DEPTH/LENGTH BASED ON MUD WTS & SAFETY FACTORS

Drilling Mud Weight (ppg)	_____	9.625
Tension Safety Factor	_____	1.80
Maximum Tension Length (ft)	_____	9,630
Internal Yield Safety Factor	_____	1.10
Maximum Depth for Internal Yield (ft)	_____	14,150
Collapse Safety Factor	_____	1.125
Maximum Collapse Depth (ft)	_____	11,290

## API RELATED VALUES and INTERMEDIATE CALCULATION RESULTS

Coupling Thread Fracture Strength	_____	464,000
Pipe Thread Fracture Strength (lbs)	_____	201,000
Pipe Body Plain End Yield (lbs)	_____	267,000
Round Thread Pull-Out (lbs)	_____	219,000
Minimum Make-up Torque (ft-lbs)	_____	1,640
Nominal Make-up Torque (ft-lbs)	_____	2,190
Maximum Make-up Torque (ft-lbs)	_____	2,740
Coupling Internal Yield (psi)	_____	10,660
Pipe Body Internal Yield (psi)	_____	7,780
Leak @ E1 or E7 plane (psi)	_____	17,920
Pipe Hydrostatic Test Pressure @ 80 % SMYS	_____	7,100

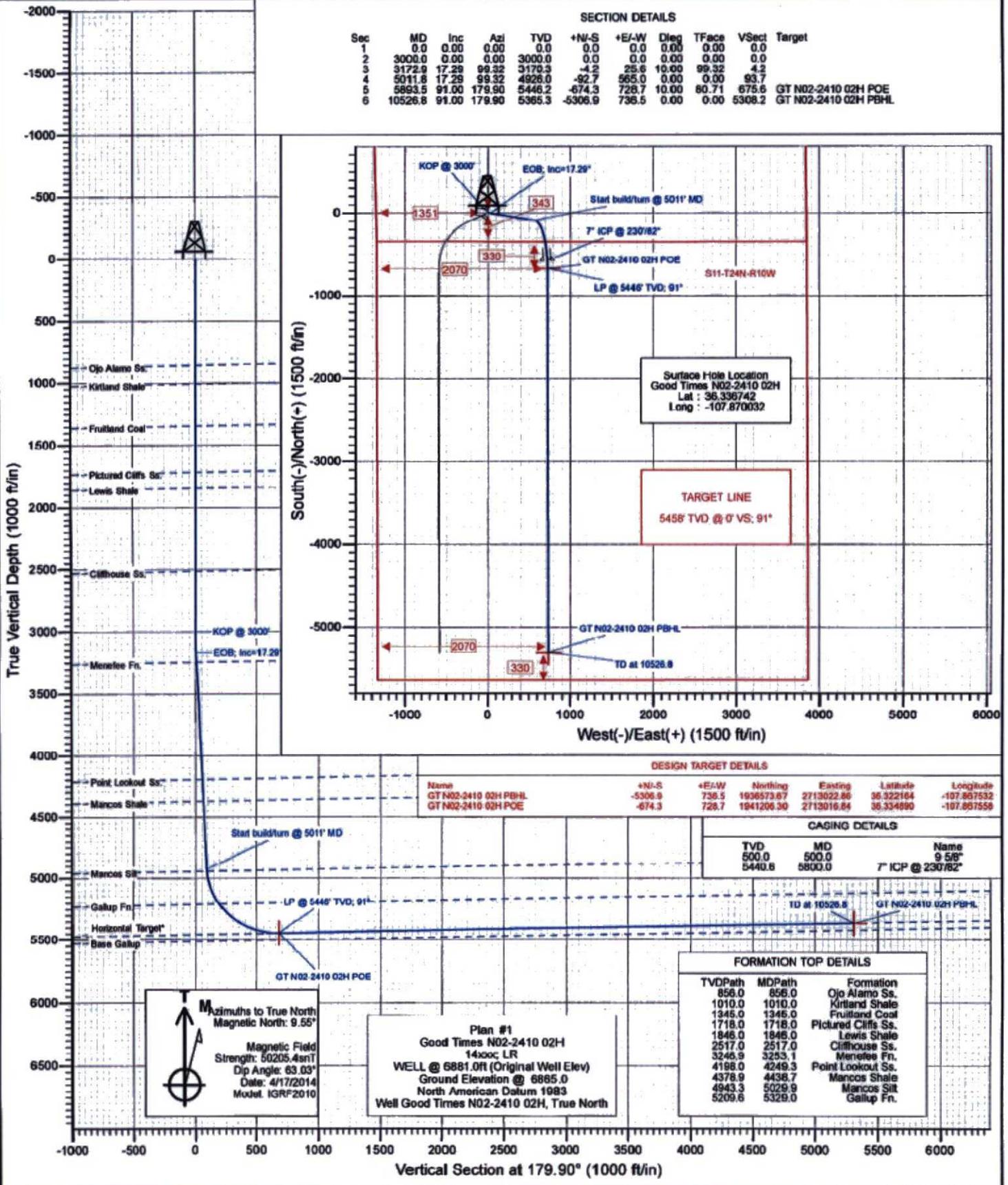


Project: San Juan County, NM  
 Site: S2-T24N-R10W  
 Well: Good Times N02-2410 02H  
 Wellbore: Hz  
 Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3172.9	17.29	99.32	3170.3	-4.2	25.6	10.00	99.32	-4.2	
4	5011.8	17.29	99.32	4926.0	-82.7	565.0	0.00	60.71	675.6	GT N02-2410 02H POE
5	5853.5	91.00	179.90	5446.2	-674.3	728.7	10.00	80.71	675.6	GT N02-2410 02H PBHL
6	10526.8	91.00	179.90	5366.3	-5306.9	736.5	0.00	0.00	5368.2	



DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
GT N02-2410 02H PBHL	-5306.9	736.5	1936573.67	2713022.86	36.322184	-107.867532
GT N02-2410 02H POE	-674.3	728.7	1941206.30	2713016.84	36.334890	-107.867559

CAGING DETAILS

TVD	MD	Name
500.0	500.0	9 5/8"
5440.6	5800.0	7" ICP @ 230/82"

TD at 10526.8 GT N02-2410 02H PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
856.0	856.0	Ojo Alamo Ss.
1010.0	1010.0	Kirtland Shale
1345.0	1345.0	Fruitland Coal
1718.0	1718.0	Pictured Cliffs Ss.
1846.0	1846.0	Lewis Shale
2517.0	2517.0	Cliffhouse Ss.
3245.9	3255.1	Mancos Fn.
4198.0	4249.3	Point Lookout Ss.
4378.9	4438.7	Mancos Sst
4943.3	5029.9	Gallup Fn.
5209.6	5329.0	

Magnetic Field  
 Strength: 50205.4nT  
 Dip Angle: 63.03°  
 Date: 4/17/2014  
 Model: IGRF2010

Azimuths to True North  
 Magnetic North: 9.55°

Plan #1  
 Good Times N02-2410 02H  
 14xoc LR  
 WELL @ 5881.0R (Original Well Elev)  
 Ground Elevation @ 6865.0  
 North American Datum 1983  
 Well Good Times N02-2410 02H, True North

Vertical Section at 179.90° (1000 ft/in)



Planning Report

Database:  
Company:  
Project:  
Site:  
Well:  
Wellbore:  
Design:

USA EDM 5000 Multi Users DB  
Encana Oil & Gas (USA) Inc  
San Juan County, NM  
S2-T24N-R10W  
Good Times N02-2410 02H  
Hz  
Plan #1

Local Co-ordinate Reference:  
TVD Reference:  
MID Reference:  
North Reference:  
Survey Calculation Method:

Well Good Times N02-2410 02H  
WELL @ 8881.0ft (Original Well Elev)  
WELL @ 8881.0ft (Original Well Elev)  
True  
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	9 5/8"
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	
856.0	0.00	0.00	856.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo Ss.
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	
1,010.0	0.00	0.00	1,010.0	0.0	0.0	0.0	0.00	0.00	Kirland Shale
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	
1,345.0	0.00	0.00	1,345.0	0.0	0.0	0.0	0.00	0.00	Fruitland Coal
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	
1,718.0	0.00	0.00	1,718.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,846.0	0.00	0.00	1,846.0	0.0	0.0	0.0	0.00	0.00	Lewis Shale
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	
2,517.0	0.00	0.00	2,517.0	0.0	0.0	0.0	0.00	0.00	Cliffhouse Ss.
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 3000'
3,100.0	10.00	98.32	3,099.5	-1.4	8.6	1.4	10.00	10.00	
3,172.9	17.29	99.32	3,170.3	-4.2	25.6	4.2	10.00	10.00	EOB; Inc=17.29*
3,200.0	17.29	99.32	3,196.2	-5.5	33.5	5.6	0.00	0.00	
3,253.1	17.29	99.32	3,246.9	-8.1	49.1	8.1	0.00	0.00	Menefee Fn.
3,300.0	17.29	99.32	3,291.6	-10.3	62.8	10.4	0.00	0.00	
3,400.0	17.29	99.32	3,387.1	-15.1	92.2	15.3	0.00	0.00	
3,500.0	17.29	99.32	3,482.6	-19.9	121.5	20.2	0.00	0.00	
3,600.0	17.29	99.32	3,576.1	-24.8	150.8	25.0	0.00	0.00	
3,700.0	17.29	99.32	3,673.6	-29.6	180.2	29.9	0.00	0.00	
3,800.0	17.29	99.32	3,769.0	-34.4	209.5	34.8	0.00	0.00	
3,900.0	17.29	99.32	3,864.5	-39.2	238.8	39.6	0.00	0.00	
4,000.0	17.29	99.32	3,960.0	-44.0	268.2	44.6	0.00	0.00	
4,100.0	17.29	99.32	4,055.5	-48.8	297.5	49.4	0.00	0.00	
4,200.0	17.29	99.32	4,151.0	-53.7	326.8	54.2	0.00	0.00	Point Lookout Ss.
4,249.3	17.29	99.32	4,198.0	-56.0	341.3	56.6	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Good Times N02-2410 02H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc.	<b>TVD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Project:</b>	San Juan County, NM	<b>MD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Site:</b>	S2-T24N-R 10W	<b>North Reference:</b>	True
<b>Well:</b>	Good Times N02-2410 02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

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
4,300.0	17.29	99.32	4,246.4	-58.5	356.2	59.1	0.00	0.00	
4,400.0	17.29	99.32	4,341.9	-63.3	385.5	64.0	0.00	0.00	
4,438.7	17.29	99.32	4,378.9	-65.1	396.8	65.8	0.00	0.00	Mancos Shale
4,500.0	17.29	99.32	4,437.4	-68.1	414.8	68.8	0.00	0.00	
4,600.0	17.29	99.32	4,532.9	-72.9	444.2	73.7	0.00	0.00	
4,700.0	17.29	99.32	4,628.4	-77.7	473.5	78.6	0.00	0.00	
4,800.0	17.29	99.32	4,723.8	-82.5	502.8	83.4	0.00	0.00	
4,900.0	17.29	99.32	4,819.3	-87.4	532.2	88.3	0.00	0.00	
5,000.0	17.29	99.32	4,914.8	-92.2	561.5	93.2	0.00	0.00	
5,011.8	17.29	99.32	4,926.0	-92.7	565.0	93.7	0.00	0.00	Start build/turn @ 5011' MD
5,029.9	17.67	105.23	4,943.3	-93.9	570.3	94.9	10.00	2.10	Mancos Silt
5,100.0	20.59	124.82	5,009.6	-103.7	599.7	104.8	10.00	4.16	
5,200.0	27.35	143.20	5,101.1	-132.2	618.9	133.3	10.00	6.76	
5,300.0	35.57	154.19	5,196.4	-176.9	645.4	176.1	10.00	8.23	
5,329.0	38.11	156.56	5,209.6	-192.8	652.7	193.9	10.00	8.72	Gallup Fn.
5,400.0	44.46	161.37	5,262.9	-236.5	669.3	237.6	10.00	8.95	
5,500.0	53.66	166.55	5,328.4	-309.0	690.0	310.2	10.00	9.21	
5,600.0	63.05	170.62	5,380.8	-392.4	706.6	393.6	10.00	9.38	
5,700.0	72.53	174.06	5,418.6	-484.0	718.9	485.3	10.00	9.48	
5,800.0	82.07	177.15	5,440.6	-581.1	726.3	582.4	10.00	9.54	7" ICP @ 230°/82°
5,893.5	91.00	179.90	5,446.2	-674.3	728.7	675.6	10.00	9.56	LP @ 5446' TVD; 91°
5,900.0	91.00	179.90	5,446.1	-680.8	728.7	682.1	0.00	0.00	
6,000.0	91.00	179.90	5,444.3	-760.8	728.9	762.1	0.00	0.00	
6,100.0	91.00	179.90	5,442.6	-880.8	729.0	882.1	0.00	0.00	
6,200.0	91.00	179.90	5,440.8	-980.8	729.2	982.1	0.00	0.00	
6,300.0	91.00	179.90	5,439.1	-1,080.8	729.4	1,082.0	0.00	0.00	
6,400.0	91.00	179.90	5,437.4	-1,180.8	729.5	1,182.0	0.00	0.00	
6,500.0	91.00	179.90	5,435.6	-1,280.7	729.7	1,282.0	0.00	0.00	
6,600.0	91.00	179.90	5,433.9	-1,380.7	729.9	1,382.0	0.00	0.00	
6,700.0	91.00	179.90	5,432.1	-1,480.7	730.0	1,482.0	0.00	0.00	
6,800.0	91.00	179.90	5,430.4	-1,580.7	730.2	1,582.0	0.00	0.00	
6,900.0	91.00	179.90	5,428.6	-1,680.7	730.4	1,682.0	0.00	0.00	
7,000.0	91.00	179.90	5,426.9	-1,780.7	730.5	1,781.9	0.00	0.00	
7,100.0	91.00	179.90	5,425.1	-1,880.7	730.7	1,881.9	0.00	0.00	
7,200.0	91.00	179.90	5,423.4	-1,980.6	730.9	1,981.9	0.00	0.00	
7,300.0	91.00	179.90	5,421.6	-2,080.6	731.0	2,081.9	0.00	0.00	
7,400.0	91.00	179.90	5,419.9	-2,180.6	731.2	2,181.9	0.00	0.00	
7,500.0	91.00	179.90	5,418.1	-2,280.6	731.4	2,281.9	0.00	0.00	
7,600.0	91.00	179.90	5,416.4	-2,380.6	731.5	2,381.8	0.00	0.00	
7,700.0	91.00	179.90	5,414.7	-2,480.6	731.7	2,481.8	0.00	0.00	
7,800.0	91.00	179.90	5,412.9	-2,580.5	731.9	2,581.8	0.00	0.00	
7,900.0	91.00	179.90	5,411.2	-2,680.5	732.0	2,681.8	0.00	0.00	
8,000.0	91.00	179.90	5,409.4	-2,780.5	732.2	2,781.8	0.00	0.00	
8,100.0	91.00	179.90	5,407.7	-2,880.5	732.4	2,881.8	0.00	0.00	
8,200.0	91.00	179.90	5,405.9	-2,980.5	732.5	2,981.8	0.00	0.00	
8,300.0	91.00	179.90	5,404.2	-3,080.5	732.7	3,081.7	0.00	0.00	
8,400.0	91.00	179.90	5,402.4	-3,180.5	732.9	3,181.7	0.00	0.00	
8,500.0	91.00	179.90	5,400.7	-3,280.4	733.0	3,281.7	0.00	0.00	
8,600.0	91.00	179.90	5,398.9	-3,380.4	733.2	3,381.7	0.00	0.00	
8,700.0	91.00	179.90	5,397.2	-3,480.4	733.4	3,481.7	0.00	0.00	
8,800.0	91.00	179.90	5,395.5	-3,580.4	733.6	3,581.7	0.00	0.00	
8,900.0	91.00	179.90	5,393.7	-3,680.4	733.7	3,681.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Good Times N02-2410 02H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6881.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6881.0ft (Original Well Elev)
Site:	S2-T24N-R10W	North Reference:	True
Well:	Good Times N02-2410 02H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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	91.00	179.90	5,392.0	-3,780.4	733.9	3,781.6	0.00	0.00	
9,100.0	91.00	179.90	5,390.2	-3,880.3	734.1	3,881.6	0.00	0.00	
9,200.0	91.00	179.90	5,388.5	-3,980.3	734.2	3,981.6	0.00	0.00	
9,300.0	91.00	179.90	5,386.7	-4,080.3	734.4	4,081.6	0.00	0.00	
9,400.0	91.00	179.90	5,385.0	-4,180.3	734.6	4,181.6	0.00	0.00	
9,500.0	91.00	179.90	5,383.2	-4,280.3	734.7	4,281.6	0.00	0.00	
9,600.0	91.00	179.90	5,381.5	-4,380.3	734.9	4,381.5	0.00	0.00	
9,700.0	91.00	179.90	5,379.7	-4,480.3	735.1	4,481.5	0.00	0.00	
9,800.0	91.00	179.90	5,378.0	-4,580.2	735.2	4,581.5	0.00	0.00	
9,900.0	91.00	179.90	5,376.2	-4,680.2	735.4	4,681.5	0.00	0.00	
10,000.0	91.00	179.90	5,374.5	-4,780.2	735.6	4,781.5	0.00	0.00	
10,100.0	91.00	179.90	5,372.8	-4,880.2	735.7	4,881.5	0.00	0.00	
10,200.0	91.00	179.90	5,371.0	-4,980.2	735.9	4,981.4	0.00	0.00	
10,300.0	91.00	179.90	5,369.3	-5,080.2	736.1	5,081.4	0.00	0.00	
10,400.0	91.00	179.90	5,367.5	-5,180.1	736.2	5,181.4	0.00	0.00	
10,500.0	91.00	179.90	5,365.8	-5,280.1	736.4	5,281.4	0.00	0.00	
10,526.8	91.00	179.90	5,365.3	-5,306.9	736.5	5,308.2	0.00	0.00	TD at 10526.8

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
GT N02-2410 02H POE - hit/miss target - Shape - Point	0.00	0.00	5,446.2	-674.3	728.7	1,941,206.30	2,713,016.84	36.334890	-107.867558
GT N02-2410 02H PBHI - plan hits target center - Point	0.00	0.00	5,365.3	-5,306.9	736.5	1,936,573.67	2,713,022.86	36.322164	-107.867532

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
500.0	500.0	9 5/8"	0.000	0.000	
5,800.0	5,440.6	7" ICP @ 230°/82°	0.000	0.000	

Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Good Times N02-2410 02H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Project:</b>	San Juan County, NM	<b>MD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Site:</b>	S2-T24N-R10W	<b>North Reference:</b>	True
<b>Well:</b>	Good Times N02-2410 02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
856.0	856.0	Ojo Alamo Ss.		-1.00	179.90	
1,010.0	1,010.0	Kirtland Shale		-1.00	179.90	
1,345.0	1,345.0	Fruitland Coal		-1.00	179.90	
1,718.0	1,718.0	Pictured Cliffs Ss.		-1.00	179.90	
1,846.0	1,846.0	Lewis Shale		-1.00	179.90	
2,517.0	2,517.0	Cliffhouse Ss.		-1.00	179.90	
3,253.1	3,247.0	Menefee Fn.		-1.00	179.90	
4,249.3	4,199.0	Point Lookout Ss.		-1.00	179.90	
4,438.7	4,380.0	Mancos Shale		-1.00	179.90	
5,029.9	4,945.0	Mancos Silt		-1.00	179.90	
5,329.0	5,213.0	Gallup Fn.		-1.00	179.90	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
3,000.0	3,000.0	0.0	0.0	KOP @ 3000'	
3,172.9	3,170.3	-4.2	25.6	EOB; Inc=17.29°	
5,011.8	4,926.0	-92.7	585.0	Start build/turn @ 5011' MD	
5,893.5	5,446.2	-674.3	728.7	LP @ 5446' TVD; 91°	
10,526.8	5,365.3	-5,306.9	736.5	TD at 10526.8	

# **EnCana Oil & Gas (USA) Inc**

**San Juan County, NM**

**S2-T24N-R10W**

**Good Times N02-2410 02H**

**Hz**

**Plan #1**

## **Anticollision Report**

**24 April, 2014**

### Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Good Times N02-2410 02H
<b>Project:</b>	San Juan County, NM	<b>TVD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Reference Site:</b>	S2-T24N-R10W	<b>MD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Good Times N02-2410 02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria
<b>Interpolation Method:</b>	MD Interval 100.0ft
<b>Depth Range:</b>	Unlimited
<b>Results Limited by:</b>	Maximum center-center distance of 1,243.2ft
<b>Warning Levels Evaluated at:</b>	2.00 Sigma
<b>Error Model:</b>	Systematic Ellipse
<b>Scan Method:</b>	Closest Approach 3D
<b>Error Surface:</b>	Elliptical Conic

<b>Survey Tool Program</b>	Date 4/24/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	10,526.8	Plan #1 (Hz)	Geolink MWD	Geolink MWD

<b>Summary</b>						
	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Site Name</b>						
Offset Well - Wellbore - Design						
S2-T24N-R10W	3,000.0	3,000.0	30.2	19.7	2.895	CC, ES, SF
Good Times N02-2410 01H - Hz - Plan #1						



### Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Good Times N02-2410 02H
<b>Project:</b>	San Juan County, NM	<b>TVD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Reference Site:</b>	S2-T24N-R10W	<b>MD Reference:</b>	WELL @ 6881.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Good Times N02-2410 02H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S2-T24N-R10W - Good Times N02-2410 01H - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
							+N-S (ft)	+E-W (ft)					
5,200.0	5,101.1	4,922.1	4,819.2	14.7	8.8	126.48	-25.0	-52.3	703.6	685.8	17.86	39.307	
5,300.0	5,196.4	4,950.0	4,845.5	15.4	8.7	110.92	-28.9	-60.6	760.5	741.5	16.98	40.805	
5,400.0	5,282.9	5,000.0	4,991.5	16.1	8.8	100.12	-37.2	-78.4	820.1	799.8	20.28	40.435	
5,500.0	5,328.4	5,023.8	5,012.7	16.9	8.9	90.57	-41.8	-88.2	881.2	859.6	21.60	40.799	
5,600.0	5,380.8	5,050.0	5,035.5	17.8	9.0	82.76	-47.2	-99.8	942.7	920.1	22.62	41.875	
5,700.0	5,418.6	5,070.8	5,053.2	18.7	9.0	76.04	-51.8	-109.7	1,003.4	980.2	23.21	43.232	
5,800.0	5,440.6	5,100.0	5,077.4	19.7	9.2	71.11	-58.8	-124.6	1,062.4	1,039.0	23.42	45.362	
5,900.0	5,446.1	5,100.0	5,077.4	20.8	9.2	65.99	-58.8	-124.6	1,118.5	1,095.3	23.17	48.269	
6,000.0	5,444.3	5,100.0	5,077.4	22.0	9.2	65.99	-56.0	-124.6	1,176.6	1,152.1	24.53	47.909	
6,100.0	5,442.6	5,124.5	5,097.0	23.2	9.3	67.43	-65.0	-138.0	1,239.6	1,213.4	26.22	47.280	

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

## Anticollision Report

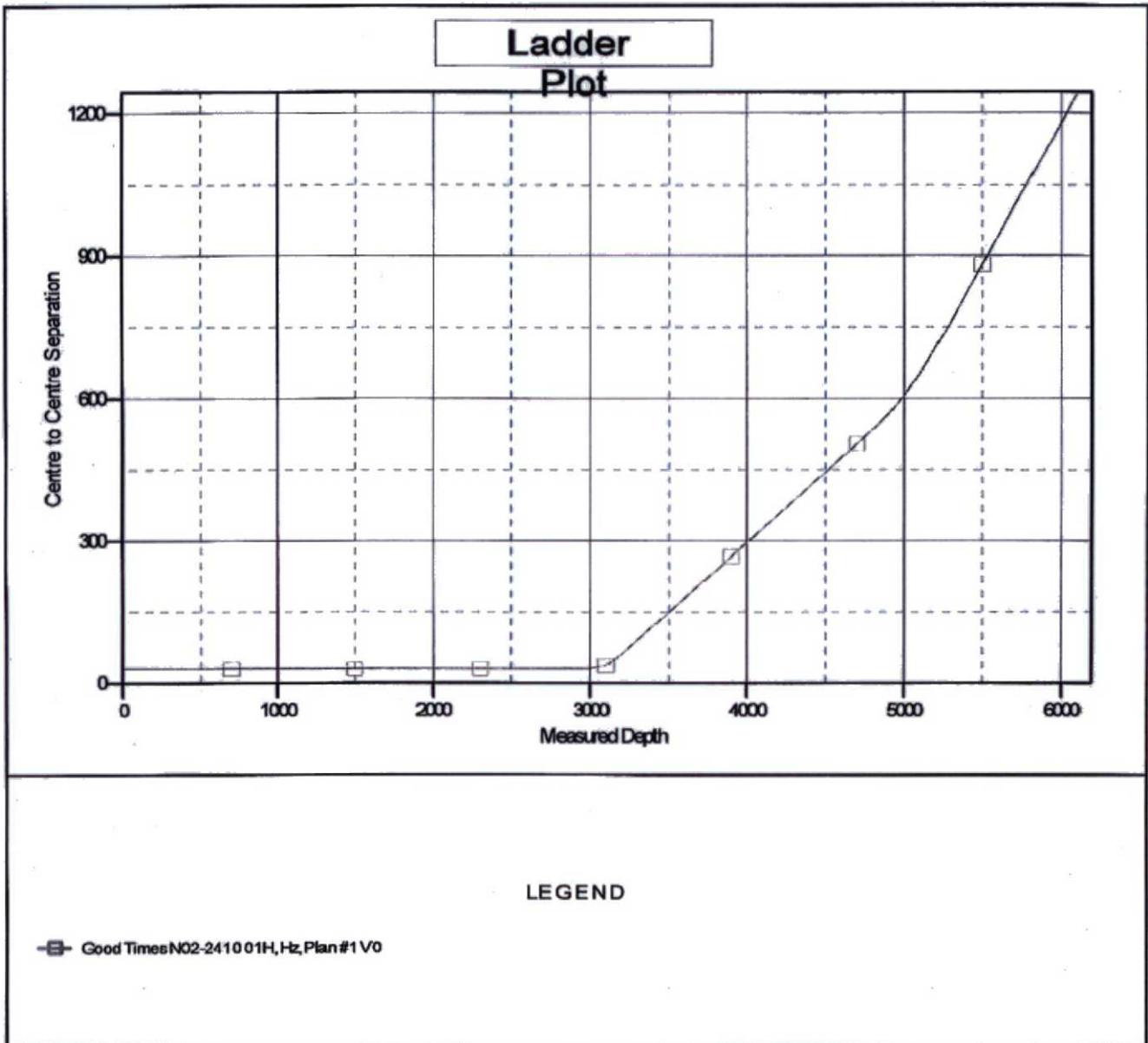
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** San Juan County, NM  
**Reference Site:** S2-T24N-R10W  
**Site Error:** 0.0ft  
**Reference Well:** Good Times N02-2410 02H  
**Well Error:** 0.0ft  
**Reference Wellbore:** Hz  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Output errors are at**  
**Database:**  
**Offset TVD Reference:**

**Well Good Times N02-2410 02H**  
 WELL @ 6881.0ft (Original Well Elev)  
 WELL @ 6881.0ft (Original Well Elev)  
 True  
 Minimum Curvature  
 2.00 sigma  
 USA EDM 5000 Multi Users DB  
 Offset Datum

Reference Depins are relative to WELL @ 6881.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.833333°

Coordinates are relative to: Good Times N02-2410 02H  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: -0.02°



**Good Times N02-2410 02H**

**SHL: SESW Section 2, T24N, R10W**

**343' FSL and 1351' FWL**

**BHL: SWSW Section 11, T24N, R10W**

**330' FSL and 2070' FWL**

**San Juan County, New Mexico**

**Lease Numbers: NMNM112955**

**Encana Oil & Gas (USA) Inc.  
Surface Use Plan of Operations**

Please see attached survey package and supporting documents:

Survey Package:

Sheet A - Form C-102

Sheet B-1 and B-2 - Topo Map Depicting Well Site, Access Roads, and Pipeline

Sheet C- Directions to Site

Sheet D- Adjacent Wells

Sheet E - Proposed Pipeline Survey

Sheet F-1 and F-2- Proposed Well Site Plan and Profile

Sheets G-1 and G-2- Proposed Well Site Layout

Appendix A - Road Maintenance Plan

**1. EXISTING ROADS**

- A. Existing access roads are shown on Sheets B-1 and B-2.
- B. Directions to the site are provided on Sheet C.
- C. The existing road that will be used to access the location was identified at the onsite as a Resource Road in good condition and regularly maintained. This road will not need any upgrades.
- D. Roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location. Encana will inspect and maintain the roads as outlined in the attached Road Maintenance Plan (Appendix A).
- E. Dust emissions will be controlled on the roads and locations, as necessary, with the application of dust suppressants (e.g. magnesium chloride) and/or water. Dust control will be implemented when dust plumes become larger than normal road use conditions or when directed by the BLM Authorized Officer.

**2. NEW OR RECONSTRUCTED ACCESS ROADS**

- A. The proposed access road is staked as shown on Sheet B. Approximately 2,659 feet of new resource road will be constructed entirely on State lands.
- B. The proposed well pad access road was defined as a Resource Road during the onsite conducted on February 5, 2014.
- C. Maximum width will be a 30-foot overall right-of-way with a 14-foot road running surface. During drilling and subsequent operations, all equipment and vehicles will be confined to the 14-foot driving surface.
- D. Install 24 inch culverts where needed along the new access road. See Sheet B.
- E. Install 24 inch culverts in small wash crossings at the following stations along the new access;
  - STA 14+38
  - STA 17+67
  - STA 19+75

**Good Times N02-2410 02H**

**SHL: SESW Section 2, T24N, R10W**

**343' FSL and 1351' FWL**

**BHL: SWSW Section 11, T24N, R10W**

**330' FSL and 2070' FWL**

**San Juan County, New Mexico**

**Lease Numbers: NMNM112955**

- F. Construct a silt trap on the high side of the new access at STA 22+63 with a 24 inch culvert for an overflow.
- G. Construct a 50 foot by 300 foot TUA on the West side of the new access from STA 3+55 to STA 6+55 shown in Detail "A" on the Proposed Access plat for vehicle staging.
- H. Maximum grade will average 0-5 percent.
- I. Construction materials and methods – See Item 6.A.
- J. Encana will be responsible for road maintenance from the beginning of construction to completion of operations and the well is plugged and abandoned. See attached Road Maintenance Plan (Appendix B).
- K. Dust emissions will be controlled on the roads and locations, as necessary, with the application of dust suppressants (e.g. magnesium chloride) and/or water. Dust control will be implemented when dust plumes become larger than normal road use conditions or when directed by the BLM Authorized Officer.

**3. LOCATION OF EXISTING WELLS**

Please refer to Sheet D.

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

**A. Survey Monuments**

Encana will protect all survey monuments, witness corners, reference monuments and bearing trees in the affected areas against disturbance during construction, operation, maintenance and termination of the facilities authorized herein.

Encana will immediately notify the BLM Authorized Officer in the event that any corners, monuments or markers are disturbed or are anticipated to be disturbed. If any monuments, corner or accessories are destroyed, obliterated or damaged during construction, operation or maintenance, Encana will secure the services of a Registered Land Surveyor to restore the disturbed monuments, corner or accessories, at the same location, using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands of the United States, latest edition. Encana will ensure that the Registered Land Surveyor properly records the survey in compliance with 12.8.2 NMAC and will send a copy to the BLM.

**B. Pipeline**

- 1. A 1,024 foot (0.2 miles), up to 6-inch outside diameter, steel gas pipeline, is proposed. The entire length of the pipeline will be co-located with the proposed new access. This well will be connected to the existing Olympic Torch Pipeline in the SESW of Section 2, T24N R10W. Please refer to Sheets B-1, B-2, and E.
- 2. Encana will request a 40-foot right-of-way for the pipeline. Construction width of the pipeline workspace will be restricted to 50 feet of disturbance, including the access road and will be designated as 20 feet of disturbance adjacent to the road and 30 feet of disturbance on the road.
- 3. All buried pipelines will be buried to a depth of 3 feet, except at road crossings where they will be buried to a depth of 4 feet.

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4. Pipeline location warning signs will be installed within 90 days after construction is completed.
5. The pipeline right-of-way will be conditioned in a manner to preclude vehicular travel upon said right-of-way, except for access to pipeline above-ground appurtenances.

**C. Production Facility**

1. The production equipment and facility layout will be deferred until the facility and reclamation onsite with the BLM prior to setting any equipment.
2. Production equipment will be placed on location in such a manner to minimize long-term disturbance and maximize interim reclamation. As practical, access will be provided by a teardrop-shaped road through the production area so that the center may be revegetated.
3. A berm will be constructed completely around any production facilities which contain fluids (i.e. production tanks, produced water tanks, etc.) These berms will be constructed of compacted subsoil, corrugated metal, or equivalent, be impervious, and hold 110 percent of the capacity of the largest tank.
4. All permanent (onsite for 6 months or longer) above-ground equipment constructed or installed, including pumping units, will be painted Covert Green. All production facilities will be painted within 6 months of installation. Facilities that are required to comply with Occupation Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

**5. LOCATION AND TYPES OF WATER SUPPLY**

- A. Water to be used for the drilling and completing of this well will be hauled by truck over the roads described in Items 1 and 2. The water source will be from an existing private water well located in the SWNE of Section 32, T25N, 9W. The well has been assigned the POD Number SJ 2105 by the New Mexico Office of the State Engineer. To access the well pad from this water well, turn Southwesterly on Highway 57 and travel approximately 3.1 miles to CR 7610. Turn right onto CR 7610 and continue for 2.6 miles to CR 7515. Turn Right and travel 1.8 miles. Turn right and travel 1.4 miles to the Good Times N02-2410 #01H access road. Turn right and continue 0.5 miles to the well pad. Encana does not plan to drill a water well.

**6. CONSTRUCTION MATERIALS AND METHODS**

**A. Access Road**

1. The access road will be designed and constructed as a Resource Road in accordance with the BLM Gold Book Standards and BLM 9113-1 (Roads Design Handbook) and BLM 9113-2 (Roads National Inventory and Condition Assessment Guidance and Instructions Handbook). Construction will include ditching, draining, installing culverts, crowning and capping or sloping and dipping the roadbed, as necessary, to provide a well-constructed and safe road.
2. No fence cuts will be required for access or pipeline construction.
3. Any trees larger than 3-inches in diameter will be cut at ground level and delimbed. The trunks will be stacked whole along the access road, well pad, and/or pipeline for wood gathering. Stumps will be cut as close to the ground as possible. Stumps and root balls will be hauled to an approved disposal site or stockpiled at the edge of the well pad and buried in the cut slopes of the pad during interim reclamation.

Any trees smaller than 3-inches in diameter, slash and brush will be chipped, shredded or mulched and incorporated into the topsoil for later use in interim reclamation.

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Remaining brush will be brush-hogged or scalped at ground-level prior to ground disturbance.

4. After removal of vegetation, topsoil will be segregated and windrowed on the edge of the access road. Topsoil will be defined as the top six (6) inches of soil. The stockpiled topsoil will be free of brush and tree limbs, trunks and root balls, but may include chipped or mulched material so long as it is incorporated into the topsoil stockpile.

Topsoil will not be stripped when soils are moisture-saturated or frozen below the stripping depth.

5. All construction materials for the access road will consist of native borrow and subsoil accumulated during road construction. If additional fill or surfacing material is required, it will be obtained from existing permitted or private sources and will be hauled in by trucks over existing access roads to the area.
6. The proposed access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide proper drainage. Drainage design will be in accordance with BLM Gold Book standards and BLM 9113-1 (Roads Design Handbook) and BLM 9113-2 (Roads National Inventory and Condition Assessment Guidance and Instructions Handbook).
7. Install 24-inch culverts where indicated along the new well pad access road. See Sheet B. Additional culverts will be installed if needed. Culverts will be sized and installed in accordance with BLM Gold Book standards and BLM 9113-1 (Roads Design Handbook) and BLM 9113-2 (Roads National Inventory and Condition Assessment Guidance and Instructions Handbook).
8. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and dozer. Construction of the access road and well pad will take approximately 3 weeks.

**B. Well Pad**

1. Any trees larger than 3-inches in diameter will be cut at ground level and delimbed. The trunks will be stacked whole along the access road, well pad, and/or pipeline for wood gathering. Stumps will be cut as close to the ground as possible. Stumps and root balls will be hauled to an approved disposal site or stockpiled at the edge of the well pad and buried in the cut slopes of the pad during interim reclamation.

Any trees smaller than 3-inches in diameter, slash and brush will be chipped, shredded or mulched and incorporated into the topsoil for later use in interim reclamation.

Remaining brush will be brush-hogged or scalped at ground-level prior to ground disturbance.

2. After removal of vegetation, topsoil will be segregated and windrowed on the edge of the well pad in the construction zone. Topsoil will be defined as the top six (6) inches of soil. The stockpiled topsoil will be free of brush and tree limbs, trunks and root balls, but may include chipped or mulched material so long as it is incorporated into the topsoil stockpile.

Topsoil will be stockpiled separate from subsoil with a noticeable gap left between the stockpiles. Vehicle/equipment traffic will be prevented from crossing topsoil stockpiles.

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Topsoil will not be stripped when soils are moisture-saturated or frozen below the stripping depth.

If the location becomes prone to wind or water erosion, Encana will take appropriate measures to prevent topsoil loss from wind. Such measures may include using tackifiers or water to wet the topsoil stockpile so that a crust is created across the exposed soil to prevent soil loss.

3. All construction materials for the well pad will consist of native borrow and subsoil accumulated during well pad construction. If additional fill or surfacing material is required, it will be obtained from existing permitted or private sources and will be hauled in by trucks over existing access roads.

The maximum cut will be approximately 9.4 feet on the East corner (corner 5) and the maximum fill will be approximately 7.4 feet at the Centerline Right between corner 2 and corner 3.

4. As determined during the onsite on February 5, 2014, the following best management practices will be implemented:
  - a. Water will be diverted around the pad and silt traps will be installed as needed upon interim reclamation.
5. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, and dozer. Construction for the access road and well pad will take approximately 3 weeks.

**C. Pipeline**

An Application for Right-Of-Way Easement for authorization to construct, operate, maintain and terminate a 1,024 foot, up to 6-inch outside diameter, buried steel well connect pipeline will be submitted to the State Land Office.

**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.

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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.
  2. Flowback water will be confined to a storage tank for a period not to exceed 90 days after initial production and will be disposed of at Basin Disposal, Inc. and/or Industrial Ecosystem, Inc. waste disposal facilities.
- D. Spills – any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.
- E. Sewage – self-contained, chemical toilets will be provided for human waste disposal. The toilet holding tanks will be pumped, as needed, and the contents thereof disposed of in an approved sewage disposal facility. The toilets will be onsite during all operations.
- F. Garbage and other waste material – garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash container during drilling and completion operations. The accumulated trash will be removed, as needed, and will be disposed of at an authorized sanitary landfill. No trash will be buried or burned on location.
- G. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash container will be cleaned up and removed from the well location.
- H. No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing or completing of this well.
- I. No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.
- 8. ANCILLARY FACILITIES**
- A. Standard drilling operation equipment that will be on location includes: drilling rig with associated equipment, temporary office trailers equipped with sleeping quarters for essential company personnel, toilet facilities, and trash containers.
- 9. WELL SITE LAYOUT**
- A. The proposed well pad layout is shown on Sheets F-1, F-2, G-1, and G-2. Cross sections have been drafted to visualize the planned cuts and fills across the location. Refer to Item 6 for construction materials and methods.
- B. No permanent living facilities are planned. Office trailers equipped with living quarters will be provided on location during drilling and completions operations.

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- C. The production facility layout is being deferred until the Facility and Reclamation onsite with the BLM Representative.

**10. PLANS FOR SURFACE RECLAMATION**

Per the following information provided by the BLM, Encana is not required to include a reclamation plan for this location:

*"In accordance with Onshore Order #1, a SUPO is required for a complete APD. However, the FFO Bare Soil Reclamation Plan is not required on any lands other than BLM, BOR and NM State Parks where a MOU is in effect." (December 10, 2013)*

The minerals for this well are federal; however, the well pad is located on state lands and therefore does not require a Reclamation Plan.

**11. SURFACE OWNERSHIP**

New Mexico State Land Office

Farmington District

3535 E. 30<sup>th</sup> St., Suite 222

Farmington, NM 87402

(505) 326-5716

**12. OTHER INFORMATION**

- A. An Application for Right-Of-Way Easement for authorization to construct, operate, maintain and terminate a 30-foot overall right-of-way access road 2,659 feet long with a 14-foot road running surface will be submitted to the State Land Office.
- B. An Application for Right-Of-Way Easement for authorization to construct, operate, maintain and terminate a 400-foot by 430-foot right-of-way for the well pad will be submitted to the State Land Office.
- C. An Application for Right-Of-Way Easement and Plan of Development for authorization to construct, operate, maintain and terminate a 1,024 foot, up to 6-inch buried, steel well connect pipeline will be submitted to the State Land Office.
- D. A Class III Cultural Resource Inventory of the proposed well pad, access road, and pipeline route will be conducted and filed with the BLM-Farmington Field Office.
- E. Construction contractors will call New Mexico One-Call (or equivalent) to identify the location of any marked or unmarked pipelines or cables located in proximity to the proposed well pad, access road, and pipeline at least two working days prior to ground disturbance.
- F. All operations will be conducted in such a manner that full compliance is made with the applicable laws and regulations, the approved Application for Permit to Drill, and applicable Notice(s) to Lessees.
- G. Encana will be fully responsible for the actions of its subcontractors. A complete copy of the approved Application for Permit to Drill will be furnished to the field representatives and will be on location during all construction, drilling, and completions operations.
- H. Huerfano Chapter House will be notified prior to construction.

## **Appendix A Road Maintenance Plan**

The following Road Maintenance Plan will be implemented and followed by Encana Oil & Gas (USA) Inc. (Encana) for roads utilized in its San Juan Basin Operations. All roads will be constructed and maintained to meet the Bureau of Land Management (BLM) Gold Book Standards and BLM Manuals 9113-1 (Roads Design Handbook) and BLM Manuals 9113-2 (Roads National Inventory and Condition Assessment Guidance and Instructions Handbook).

### **Road Inspection**

1. An Encana representative or designated inspector will inspect all newly constructed or reconstructed roads that will be used to construct, operate, maintain and terminate Encana's oil and gas operations.
2. Road inspections will be conducted monthly or within 72 hours of a major storm event. The Inspector will observe road conditions as they drive to and from locations.
3. Inspectors will examine the roadways and document the inspection using the attached checklist during each inspection. Inspections will consist of road crowns, culverts, ditches, silt traps and/or any other water control structures.
4. Inspection records will be kept on file and will be provided to the BLM upon request.

### **Maintenance Procedures**

Corrections will be documented on the attached inspection checklist and Encana will contact one of its authorized contractors to correct the problem.

1. **Road Crown**  
If the road crown surface becomes rutted, not adequately draining, or in a roughened condition, Encana's contractor will utilize a maintainer to re-grade and/or resurface the road crown.
2. **Culverts**  
If culverts or silt traps are plugged, Encana's contractor will use hand tools or a backhoe to excavate and remove debris or sediment impeding the function of the culvert. If the culvert is damaged by having its inlet or outlet crushed, the culvert will be replaced.
3. **Ditches**  
If road side ditches become blocked or not functioning properly, Encana's contractor will use a maintainer or the necessary equipment to clear or blade the ditch to allow it to function properly.
4. **Silt Traps or Water Control Structures**  
If silt traps or water control structures are found to be filled with sediment or not functioning properly, Encana's contractor will use the appropriate equipment to clean out sediment or repair/modify the structure to allow it to function properly. Sediment removed from silt traps or water control structures will be disposed of at an approved facility.
5. **Disturbances from Maintenance**  
If areas are disturbed from implementation of this plan, they will be mitigated and reseeded if necessary.



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**Encana Oil & Gas (USA) Inc.  
Certification**

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

*Holly Hill*

*6/5/14*

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Holly Hill  
Regulatory Analyst  
Encana Oil & Gas (USA) Inc.  
370 17<sup>th</sup> Street, Suite 1700  
Denver, CO 80202  
Phone: (720) 876-5331  
Cell: (303) 521-2835

Date



June 5, 2014

**VIA OVERNIGHT PRIORITY MAIL**

Bureau of Land Management  
Farmington Field Office  
6251 College Blvd Suite A  
Farmington, New Mexico 87402

**Re: Application for Permit to Drill  
Good Times N02-2410 02H**

To Whom it May Concern:

For your records, Encana Oil & Gas (USA) Inc. (Encana) submits an original and four copies of an Application for Permit to Drill the Good Times N02-2410 02H gas well. Also enclosed is the processing fee for \$6,500.

Encana Requests tight-hole status on this proposed well.

Encana will file with the New Mexico Oil Conservation Division (NMOCD) for administrative approval for a non-standard location (NSL), and a non-standard proration location (NSP) for the Good Times N02-2410 02H.

The Good Times N02-2410 01H proposed wellbore does not meet the current setback requirements for the Basin Manco Gas Pool (Pool Code 97232). Pursuant to New Mexico Administrative Code (NMAC) 19.15.15.13.C, Encana will file a NSL request to grant the relief of the of the 660' setback requirement to allow for production in the proposed completed interval.

Please feel free to contact me directly at 720-876-5994 or [Shannon.Turk@encana.com](mailto:Shannon.Turk@encana.com) with any questions or concerns.

Encana Oil & Gas (USA) Inc.

A handwritten signature in blue ink that reads "Shannon Turk". The signature is written in a cursive, flowing style.

Shannon Turk  
Regulatory Analyst

Enc. Good Times N02-2410 02H APD submittals

Encana Oil & Gas (USA) Inc.

370 17<sup>th</sup> Street, Suite 1700, Denver Colorado 80202 720.876.5994 (O) 720.289.4106 (C) [Shannon.Turk@encana.com](mailto:Shannon.Turk@encana.com)