

RECEIVED

CONFIDENTIAL

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office
Bureau of Land Management

APR 03 2012

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**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.
NM-287486. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE - Other instructions on page 2.

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
Lybrook H26-2307 01H2. Name of Operator
Encana Oil & Gas (USA) Inc.9. API Well No.
30-043-21183a. Address
370 17th Street, Suite 1700
Denver, CO 802023b. Phone No. (include area code)
720-876-398910. Field and Pool or Exploratory Area
Lybrook Gallup4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 2257 FNL and 357 FEL Section 26, T23N, R7W
BHL: 2257 FSL and 330 FWL Section 26, T23N, R7W11. Country or Parish, State
Sandoval New Mexico

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Updated directional drilling plans
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 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.)

On December 29, 2011, Encana Oil & Gas (USA) Inc. (Encana) submitted an Application for Permit to Drill the Lybrook H26-2307-01H oil well.

Encana submits revised directional drilling plans. The revised drilling plans have been adjusted to reflect the SHL submitted in the APD (original drilling plans submitted with APD reflected the original SHL, which was shifted slightly to avoid cultural concerns).

RCVD APR 11 '12

RCVD APR 11 '12

OIL CONS. DIV.

DIST. 3

ACCEPTED FOR RECORD

APR 04 2012

FARMINGTON FIELD OFFICE
BY *SA*

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

Name (Printed/Typed)

Brenda R. Linster

Title Regulatory Advisor

Signature

Brenda R. Linster

Date

02-20-12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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)

NMOC

W

Well Planning Proposal FOR

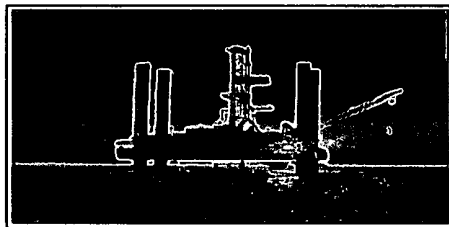
Encana
Lybrook H26-2307 01H
Sandoval Co., NM

Well File: Design #3 (1/03/12)

Presented By:

Terry Morgan
Regional Manager

Mirenda Morgan
Well Planner

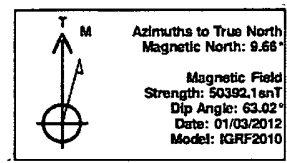




Encana Oil & Gas
 Project: Sandoval Co., NM (NAD83)
 Site: Sec.26-T23N-R7W
 Well: Lybrook H26-2307 01H
 Wellbore: Wellbore #1
 Design: Design #3
 Lat: 36.198090
 Long: -107.536960
 Pad GL: 7234.00
 KB: WELL @ 7248.00usft (Original Well Elev)

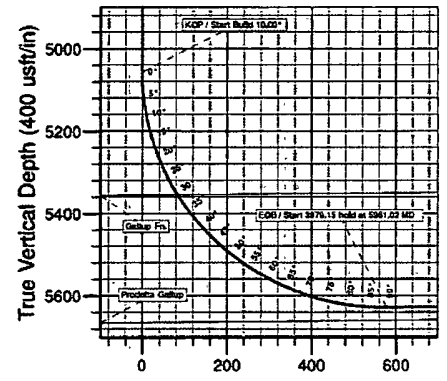


PROJECT DETAILS: Sandoval Co., NM (NAD83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Central Zone
System Datum:	Mean Sea Level



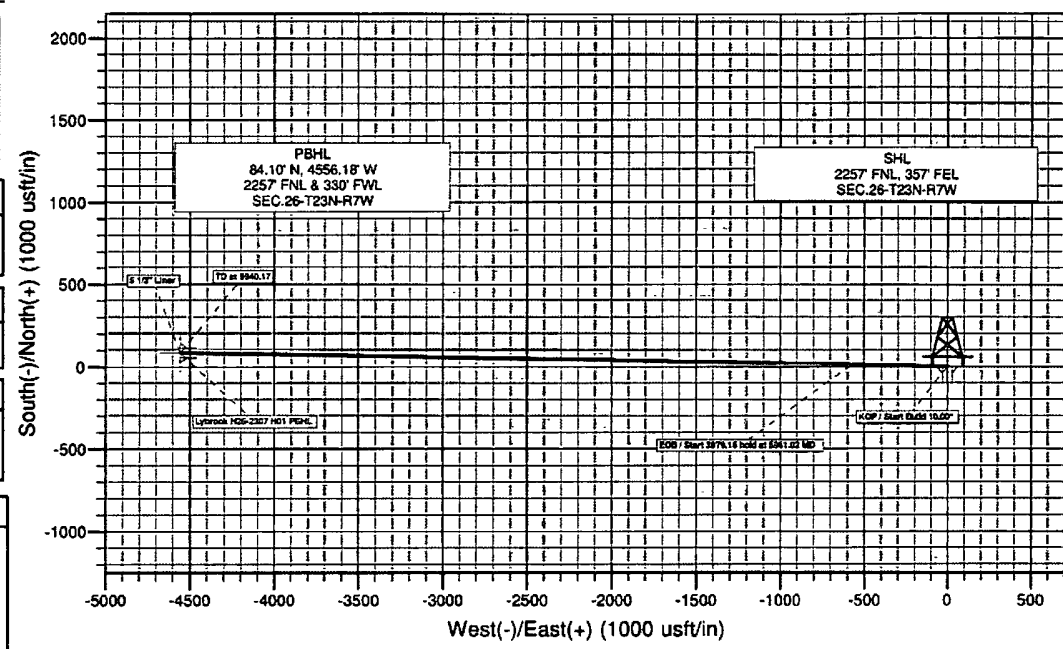
WELL DETAILS: Lybrook H26-2307 01H					
+N-S	+E-W	Northing	Ground Level: Easting	7234.00 Latitude	Longitude
0.00	0.00	1893889.427	1260700.994	36.198090	-107.536960

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
Lybrook H26-2307 H01 PBHL	5593.93	84.10	-4556.18	36.198320	-107.552400	Point

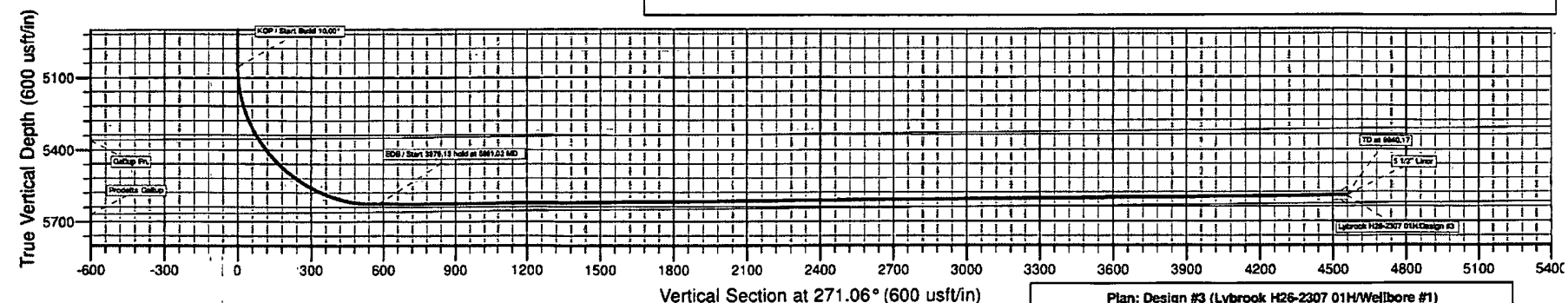


CASING DETAILS				
TVD	MD	Name	Size	
500.00	500.00	13 3/8" Csg.	13-3/8	
4800.00	4800.00	9 5/8" Csg.	9-5/8	
5594.23	9940.17	5 1/2" Liner	5-1/2	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
43.00	43.00	Nacimiento Fn.
1417.00	1417.00	Ojo Alamo Ss.
1600.00	1600.00	Kirtland Shale
1840.00	1840.00	Fruitland Coal
2074.00	2074.00	Pictured Cliffs Ss.
2225.00	2225.00	Lewis Shale
2911.00	2911.00	Climhouse Ss.
3655.00	3655.00	Menefee Fn.
4358.00	4358.00	Point Lookout Ss.
4563.00	4563.00	Mancoos Shale
5394.27	9369.71	Gallup Fn.



SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5056.02	0.00	0.00	5056.02	0.00	0.00	0.00	0.00	0.00	KOP / Start Build 10.00°
5961.02	90.50	271.06	5628.96	10.69	-577.86	10.00	271.06	577.96	EOB / Start 3979.15 hold at 5961.02 MD
9940.17	90.50	271.06	5594.23	84.30	-4556.18	0.00	0.00	4556.96	TD at 9940.17



Plan: Design #3 (Lybrook H26-2307 01H/Wellbore #1)
 Created By: Bret Wolford Date: 9:44, January 03 2012

Encana Oil & Gas

Sandoval Co., NM (NAD83)

Sec.26-T23N-R7W

Lybrook H26-2307 01H

Wellbore #1

Plan: Design #3

Standard Planning Report

03 January, 2012

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lybrook H26-2307 01H
Company:	Encana Oil & Gas	TVD Reference:	WELL @ 7248.00usft (Original Well Elev)
Project:	Sandoval Co., NM (NAD83)	MD Reference:	WELL @ 7248.00usft (Original Well Elev)
Site:	Sec.26-T23N-R7W	North Reference:	True
Well:	Lybrook H26-2307 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project	Sandoval Co., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Sec.26-T23N-R7W		
Site Position:	Lat/Long	Northing:	1,893,889.427 usft
From:		Easting:	1,260,700.994 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	36.198090
		Longitude:	-107.536960
		Grid Convergence:	-0.76 °

Well	Lybrook H26-2307 01H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			7,234.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	01/03/12	9.67
			Dip Angle
			(°)
			Field Strength
			(nT)
			50,392

Design	Design #3		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			271.06

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,056.02	0.00	0.00	5,056.02	0.00	0.00	0.00	0.00	0.00	0.00	
5,961.02	90.50	271.06	5,626.96	10.69	-577.86	10.00	10.00	0.00	271.06	
9,940.17	90.50	271.06	5,594.23	84.30	-4,556.18	0.00	0.00	0.00	0.00	Lybrook H26-2307 HC

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lybrook H26-2307 01H
Company:	Encana Oil & Gas	TVD Reference:	WELL @ 7248.00usft (Original Well Elev)
Project:	Sandoval Co., NM (NAD83)	MD Reference:	WELL @ 7248.00usft (Original Well Elev)
Site:	Sec.26-T23N-R7W	North Reference:	True
Well:	Lybrook H26-2307 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43.00	0.00	0.00	43.00	0.00	0.00	0.00	0.00	0.00	0.00
Nacimiento Fn.									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Csg.									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,417.00	0.00	0.00	1,417.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo Ss.									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland Shale									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,840.00	0.00	0.00	1,840.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland Coal									
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,074.00	0.00	0.00	2,074.00	0.00	0.00	0.00	0.00	0.00	0.00
Pictured Cliffs Ss.									
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,225.00	0.00	0.00	2,225.00	0.00	0.00	0.00	0.00	0.00	0.00
Lewis Shale									
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,911.00	0.00	0.00	2,911.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliffhouse Ss.									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,655.00	0.00	0.00	3,655.00	0.00	0.00	0.00	0.00	0.00	0.00
Menefree Fn.									

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lybrook H26-2307 01H
Company:	Encana Oil & Gas	TVD Reference:	WELL @ 7248.00usft (Original Well Elev)
Project:	Sandoval Co., NM (NAD83)	MD Reference:	WELL @ 7248.00usft (Original Well Elev)
Site:	Sec.26-T23N-R7W	North Reference:	True
Well:	Lybrook H26-2307 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,358.00	0.00	0.00	4,358.00	0.00	0.00	0.00	0.00	0.00	0.00
Point Lookout Ss.									
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,565.00	0.00	0.00	4,565.00	0.00	0.00	0.00	0.00	0.00	0.00
Mancos Shale									
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Csg.									
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,056.02	0.00	0.00	5,056.02	0.00	0.00	0.00	0.00	0.00	0.00
KOP / Start Build 10.00°									
5,100.00	4.40	271.06	5,099.96	0.03	-1.69	1.69	10.00	10.00	0.00
5,200.00	14.40	271.06	5,198.49	0.33	-17.99	18.00	10.00	10.00	0.00
5,300.00	24.40	271.06	5,292.69	0.95	-51.18	51.17	10.00	10.00	0.00
5,369.71	31.37	271.06	5,354.27	1.55	-83.73	83.75	10.00	10.00	0.00
Gallup Fn.									
5,400.00	34.40	271.06	5,379.71	1.85	-100.17	100.19	10.00	10.00	0.00
5,500.00	44.40	271.06	5,458.88	3.03	-163.55	163.58	10.00	10.00	0.00
5,600.00	54.40	271.06	5,521.88	4.43	-239.37	239.41	10.00	10.00	0.00
5,700.00	64.40	271.06	5,572.72	6.02	-325.32	325.37	10.00	10.00	0.00
5,800.00	74.40	271.06	5,607.87	7.75	-418.79	418.86	10.00	10.00	0.00
5,900.00	84.40	271.06	5,626.24	9.56	-516.94	517.03	10.00	10.00	0.00
5,961.02	90.50	271.06	5,628.96	10.69	-577.86	577.96	10.00	10.00	0.00
EOB / Start 3979.15 hold at 5961.02 MD									
6,000.00	90.50	271.06	5,628.62	11.41	-616.83	616.94	0.00	0.00	0.00
6,100.00	90.50	271.06	5,627.74	13.26	-716.81	716.93	0.00	0.00	0.00
6,200.00	90.50	271.06	5,626.87	15.11	-816.79	816.93	0.00	0.00	0.00
6,300.00	90.50	271.06	5,626.00	16.96	-916.77	916.92	0.00	0.00	0.00
6,400.00	90.50	271.06	5,625.13	18.81	-1,016.75	1,016.92	0.00	0.00	0.00
6,500.00	90.50	271.06	5,624.25	20.66	-1,116.73	1,116.92	0.00	0.00	0.00
6,600.00	90.50	271.06	5,623.38	22.51	-1,216.71	1,216.91	0.00	0.00	0.00
6,700.00	90.50	271.06	5,622.51	24.36	-1,316.68	1,316.91	0.00	0.00	0.00
6,800.00	90.50	271.06	5,621.63	26.21	-1,416.66	1,416.91	0.00	0.00	0.00
6,900.00	90.50	271.06	5,620.76	28.06	-1,516.64	1,516.90	0.00	0.00	0.00
7,000.00	90.50	271.06	5,619.89	29.91	-1,616.62	1,616.90	0.00	0.00	0.00
7,100.00	90.50	271.06	5,619.02	31.76	-1,716.60	1,716.89	0.00	0.00	0.00
7,200.00	90.50	271.06	5,618.14	33.61	-1,816.58	1,816.89	0.00	0.00	0.00
7,300.00	90.50	271.06	5,617.27	35.46	-1,916.56	1,916.89	0.00	0.00	0.00
7,400.00	90.50	271.06	5,616.40	37.31	-2,016.54	2,016.88	0.00	0.00	0.00
7,500.00	90.50	271.06	5,615.53	39.16	-2,116.52	2,116.88	0.00	0.00	0.00
7,600.00	90.50	271.06	5,614.65	41.01	-2,216.50	2,216.88	0.00	0.00	0.00
7,700.00	90.50	271.06	5,613.78	42.86	-2,316.48	2,316.87	0.00	0.00	0.00
7,800.00	90.50	271.06	5,612.91	44.71	-2,416.45	2,416.87	0.00	0.00	0.00

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lybrook H26-2307 01H
Company:	Encana Oil & Gas	TVD Reference:	WELL @ 7248.00usft (Original Well Elev)
Project:	Sandoval Co., NM (NAD83)	MD Reference:	WELL @ 7248.00usft (Original Well Elev)
Site:	Sec.26-T23N-R7W	North Reference:	True
Well:	Lybrook H26-2307 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,900.00	90.50	271.06	5,612.04	46.56	-2,516.43	2,516.86	0.00	0.00	0.00
8,000.00	90.50	271.06	5,611.16	48.41	-2,616.41	2,616.86	0.00	0.00	0.00
8,100.00	90.50	271.06	5,610.29	50.26	-2,716.39	2,716.86	0.00	0.00	0.00
8,200.00	90.50	271.06	5,609.42	52.11	-2,816.37	2,816.85	0.00	0.00	0.00
8,300.00	90.50	271.06	5,608.54	53.96	-2,916.35	2,916.85	0.00	0.00	0.00
8,400.00	90.50	271.06	5,607.67	55.81	-3,016.33	3,016.84	0.00	0.00	0.00
8,500.00	90.50	271.06	5,606.80	57.66	-3,116.31	3,116.84	0.00	0.00	0.00
8,600.00	90.50	271.06	5,605.93	59.51	-3,216.29	3,216.84	0.00	0.00	0.00
8,700.00	90.50	271.06	5,605.05	61.36	-3,316.27	3,316.83	0.00	0.00	0.00
8,800.00	90.50	271.06	5,604.18	63.21	-3,416.24	3,416.83	0.00	0.00	0.00
8,900.00	90.50	271.06	5,603.31	65.06	-3,516.22	3,516.83	0.00	0.00	0.00
9,000.00	90.50	271.06	5,602.44	66.91	-3,616.20	3,616.82	0.00	0.00	0.00
9,100.00	90.50	271.06	5,601.56	68.76	-3,716.18	3,716.82	0.00	0.00	0.00
9,200.00	90.50	271.06	5,600.69	70.61	-3,816.16	3,816.81	0.00	0.00	0.00
9,300.00	90.50	271.06	5,599.82	72.46	-3,916.14	3,916.81	0.00	0.00	0.00
9,400.00	90.50	271.06	5,598.95	74.31	-4,016.12	4,016.81	0.00	0.00	0.00
9,500.00	90.50	271.06	5,598.07	76.16	-4,116.10	4,116.80	0.00	0.00	0.00
9,600.00	90.50	271.06	5,597.20	78.01	-4,216.08	4,216.80	0.00	0.00	0.00
9,700.00	90.50	271.06	5,596.33	79.86	-4,316.06	4,316.80	0.00	0.00	0.00
9,800.00	90.50	271.06	5,595.46	81.71	-4,416.04	4,416.79	0.00	0.00	0.00
9,900.00	90.50	271.06	5,594.58	83.56	-4,516.01	4,516.79	0.00	0.00	0.00
9,940.17	90.50	271.06	5,594.23	84.30	-4,556.18	4,556.96	0.00	0.00	0.00
TD at 9940.17 - Lybrook H26-2307 H01 PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Lybrook H26-2307 H01 I	0.00	0.00	5,593.93	84.10	-4,556.18	1,894,033.964	1,256,146.331	36.198320	-107.552400
- plan misses target center by 0.37usft at 9940.17usft MD (5594.23 TVD, 84.30 N, -4556.18 E)									
- Point									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
500.00	500.00	13 3/8" Csg.	13-3/8	17-1/2
4,800.00	4,800.00	9 5/8" Csg.	9-5/8	12-1/4
9,940.17	5,594.23	5 1/2" Liner	5-1/2	6

Great White Directional Services

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Project:	Sandoval Co., NM (NAD83)	MD Reference:	WELL @ 7248.00usft (Original Well Elev)
Site:	Sec.26-T23N-R7W	North Reference:	True
Well:	Lybrook H26-2307 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
43.00	43.00	Nacimiento Fn.		-0.50	271.06	
1,417.00	1,417.00	Ojo Alamo Ss.		-0.50	271.06	
1,600.00	1,600.00	Kirtland Shale		-0.50	271.06	
1,840.00	1,840.00	Fruitland Coal		-0.50	271.06	
2,074.00	2,074.00	Pictured Cliffs Ss.		-0.50	271.06	
2,225.00	2,225.00	Lewis Shale		-0.50	271.06	
2,911.00	2,911.00	Cliffhouse Ss.		-0.50	271.06	
3,655.00	3,655.00	Menefree Fn.		-0.50	271.06	
4,358.00	4,358.00	Point Lookout Ss.		-0.50	271.06	
4,565.00	4,565.00	Mancos Shale		-0.50	271.06	
5,369.71	5,354.27	Gallup Fn.		-0.50	271.06	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,056.02	5,056.02	0.00	0.00	KOP / Start Build 10.00°	
5,961.02	5,628.96	10.69	-577.86	EOB / Start 3979.15 hold at 5961.02 MD	
9,940.17	5,594.23	84.30	-4,556.18	TD at 9940.17	