# State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

**David Martin** Cabinet Secretary-Designate

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

Jami Bailey, Division Director **Oil Conservation Division** 



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

Operator Signature Date: 2/n/14Well information; \_\_\_\_, Well Name and Number Lybrook H09 -2308 1H Operator ENLANA

API# <u>30-045-35508</u>, Section <u>9</u>, Township <u>23</u> (N)S, Range <u>F</u>E(W)

Conditions of Approval:

(See the below checked and handwritten conditions)

Notify Aztec OCD 24hrs prior to casing & cement.

Hold C-104 for directional survey & "As Drilled" Plat

Hold C-104 for NSL, NSP, DHC

- Spacing rule violation. Operator must follow up with change of status notification on other well 0 to be shut in or abandoned
- Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
  - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
  - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
  - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

NMOCD Approved by Signature

<u>6-11-2014</u> Date

1220 South St. Francis Drive - Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

	Form 3160 - 3 (August 2007)	(0	NF	DENTIA		OMB N	APPROVED o. 1004-0137 July 31, 2010	
	UNITED STA Department of th		DIOD	6 here 6		Es≃ Lease Serial No.		
	BUREAU OF LAND M			660	4 0 900	NMNM 118132		
	APPLICATION FOR PERMIT			REENTER	13 20	N/A		
	la. Type of work: IDRILL	ENTER		Bureau of Lar	n laid t Id Mana	9en7an	ement, Name and	No.
	Ib. Type of Well: Oil Well 🖌 Gas Well Other		Sin Sin	gle Zone 🔲 Multip	ole Zone	8. Lease Name and Well No. Lybrook H09-2308 01H		
	2. Name of Operator Encana Oil & Gas (USA) Inc.		45-35	:508				
11221	3a. Address 370 17th Street, Suite 1700 Denver, CO 80202		-876-35	(include area code) 33		10. Field and Pool, or Basin Mancos Gas		ıp
2	4. Location of Well (Report location clearly and in accordance wi		requireme	nts.*)		11. Sec., T. R. M. or E	llk. and Survey or .	Area
	At surface 1354' FNL and 50' FEL Section 9, T23N					Section 9, T23N	I, R8W NMPM	
	At proposed prod. zone 1400' FNL and 330' FEL Sec	ction 10, <sup>-</sup>	723N, R	8W				
	14. Distance in miles and direction from nearest town or post office +/- 40.4 miles southeast of the intersection of US Hwy		6 Hwy 6	4 in Bloomfield, N	М	12. County or Parish San Juan	13. Sta NM	ate
	<ul> <li>15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> <li>BHL is 330' from east lease line Section 10, T23N, R8W</li> </ul>			res in lease 132 - 2,320 ac	-	g Unit dedicated to this as - N/2 N/2 Section		V
	<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> <li>Federal-9 31 is +/- 1,7 west of the wellbore</li> </ol>	50	Proposed 96' TVD	Depth /10,527' MD	20. BLM/I COB-00	BIA Bond No. on file 0235		
	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,890' GL, 6,906' KB		Approxin 25/2014	ate date work will star	rt*	23. Estimated duration 25 days	'n	
		24	Attac	ments				
	The following, completed in accordance with the requirements of O				tached to the	is form:		
	<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System) SUPO must be filed with the appropriate Forest Service Office</li> </ol>	stem Lands	, the	<ol> <li>Bond to cover the ltem 20 above).</li> <li>Operator certification.</li> <li>Such other site BLM.</li> </ol>	ne operation ation specific info	ons unless covered by an existing bond on file (so formation and/or plans as may be required by the		
	25. Signature Katw W		Name ( Katie )	Printed/Typed) Wegner OLL CON	is. Div	DIST. 3		4
	Title Regulatory Analyst			JU	N 2	2014		
	Approved by (Signature)			Printed/Typed)			Date SI29	_/14
	Title ATM Application approval does not warrant or certify that the applicant	bolde lega	Office	FFJ ble title to those righ	te in the cub	iectlesse which would	entitle the applicar	
	conduct operations thereon. Conditions of approval, if any, are attached.	nonds rega			is mult sub	Jeerease which would v		
	Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make in States any false, fictitious or fraudulent statements or representation	it a crime f ns as to any	or any pe matter wi	rson knowingly and v thin its jurisdiction.	villfully to n	nake to any department of	or agency of the U	Jnited
AC OP AU	M <sup>(Continued on page 2)</sup> M <sup>(Continued on page 2)</sup> TION DOES NOT RELIEVE THE LESSEE AND ERATOR FROM OBTAINING ANY OTHER THORIZATION REQUIRED FOR OPERATIONS FEDERAL AND INDIAN LANDS		NR	0CD&		*(Inst	ructions on p	age 2)
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DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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D 10 P1 D	ISTRICT III 000 Bio Bruzos Ed hone: (505) 334-6 ISTRICT IV 120 B. St. Francis home: (505) 476-3	., Artso, N.M. 178 Faz: (60 Dr., Santa Fe	87410 6) 334-6170 9, NM 87506		12	20 South Santa F	St. ] 'e, №		Fa	nnino	B 13	d 0800	AMEND	DED REPORT
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	<sup>4</sup> Property C		~ ~ ~	97	232 / 4		perty l		BASIN	MANU	:05 / N	AGEEZI		all Number
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	OGRID No	<u>,                                     </u>		-		<sup>a</sup> Ope	rator 1	Name						Elevation
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_			<b>.</b>					Location						
U	L or lot no. H	Section 9	Township 23N	Range 8W	Lot Idn	Feet from 1354		North/Sout NORT			rom the 50'	Bast/We FA	st line ST	County SAN JUAN
		<u> </u>	251		om Hole			Differer						JAN VOAN
Γυ	L or lot no.	Section	Township	Range	Lot Idn	Feet from		North/Sout			from the	Bast/We	st line	County
	Α	10	23N	8W		400'		NORT	H		330'	E/	AST	SAN JUAN
	Dedicated Acre SOWN 50.00 ACRES			<sup>12</sup> Joint or	Infill	<sup>14</sup> Consolid	ation C	ode		<sup>18</sup> Orda	r No.			
	NO ALLOW	ABLE W											EEN CO	ONSOLIDATED
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	WELL FLAG LAT. 36.245246 LONG. 107.6780 LAT. 36.245233 LONG. 107.6774	32" W (NAD8 N (NAD27)	B3)	LONG. 107.67 LAT. 36.2478	59' N (NAD83 '6756' W (NAI 46' N (NAD27 '6145' W (NAI	D83) ')	LC LC	DTTOM HOLE NT. 36.247773' DNG. 107.6610 NT. 36.247760' DNG. 107.6604	98" W (N N (NAD	1AD83) 27)		ROFE	SSIONAL LA	

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

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

Formation Depth (TVD) units = feet Ojo Alamo Ss. 983 Kirtland Sh. 1,146 Fruitland Coal 1,402 Pictured Cliffs Ss. 1,691 Lewis Sh. 1,791 Cliffhouse Ss. 3,097 Menefee Fn. 3,181 Point Lookout Ss. 4,015 Mancos Sh. 4,241 Mancos Silt 4,788 Gallup Fn. 5,047

The estimated tops of important geologic markers are as follows:

The referenced surface elevation is 6,890', KB 6,906'

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

Substance	Formation	Depth (TVD) units = feet
Water/Gas	Fruitland Coal	1,402
Oil/Gas	Pictured Cliffs Ss.	1,691
Oil/Gas	Cliffhouse Ss.	3,097
Gas	Menefee Fn.	3,181
Oil/Gas	Point Lookout Ss.	4,015
Oil/Gas	Mancos Sh.	4,241
Oil/Gas	Mancos Silt	4,788
Oil/Gas	Gallup Fn.	5,047

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.

#### Lybrook H09-2308 01H

SHL: SENE Section 9, T23N, R8W 1354' FNL and 50' FEL BHL: NENE Section 10, T23N, R8W 400' FNL and 330' FEL San Juan County, New Mexico

# Lease Number: NMNM 118132

- d) The Annular BOP will be pressure tested to a minimum of 50 percent of its rated working pressure.
- e) Blind and Pipe Rams/BOP will be tested against a test plug to 100 percent of rated working pressure.
- f) Pressure tests are required before drilling out from under all casing strings set and cemented in place.
- g) BOP controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned.
- h) BOP testing procedures and testing frequency will conform to Onshore Order No. 2.
- 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).
- I) The choke and manifold shall contain two adjustable chokes.
- m) Hand wheels shall be installed on all ram preventers.
- n) Safety valves and wrenches (with subs for drill string connections) shall be available on the rig floor at all times.
- o) Inside BOP or float sub shall also be available on the rig floor at all times.

Proposed BOP and choke manifold arrangements are attached.

#### 4. CASING & CEMENTING PROGRAM

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

a) The proposed casing design is as follows:

Casing	Depth	Hole Size	Csg Size	Weight	Grade
Conductor	0-60'	30"	20"	94#	H40, STC New
Surface	0'-500'	12 1/4"	9 5/8"	36#	J55, STC New
Intermediate	0'-5790'MD	8 3/4"	7"	26#	J55, LTC New
Production Liner	5590'-10527'MD	6 1/8"	4 1/2"	11.6#	B80*, LTC New

	Casir	ng String		Casing St	rength F	roperties	Minimum Design Factors		
Size	Weight (lb/ft)	Grade	Connection	Collapse (psi)	Burst (psi)	Tensile (1000lb)	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 1/2"	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.

b) The proposed cementing program is as follows:

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a pre-flush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

Casing	Depth	Cement Volume (sacks)	Cement Type&Yield	Designed TOC	Centralizers
Conductor	60'	100sk	Type I Neat 16 ppg	Surface	None
Surface	500'	178sk	Type III Cement + 1% CaCl + 0.25lb/sk Cello Flake + 0.2% FL, 16ppg, 1.38cuf/sk	Surface	1 per joint on bottom 3 joints
Intermediate	5790'MD	30% open hole excess Stage 1 Lead: 260sks Stage 1 Tail: 178sks Stage 2 Lead: 153sks	Lead (Stages 1 and 2): PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk Tail (Stage 1): Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 per joint for bottom 3 joints, 1 every 3 joints for remaining joints
Production Liner*	5590'- 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 a 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 4300'. Directional plans are attached.

Description	Proposed Depth (TVD/MD)	Formation
Horizontal Lateral TD	5296'/10527'	Gallup

#### 6. DRILLING FLUIDS PROGRAM

a) Surface through Intermediate Casing Point:

Hole Size (in)	Depth (ft)	Mud Type	Density (Ib/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
30"	0-60' TVD	Fresh Water	8.3-9.2	38-100	4-28
12 1/4"	0-500' TVD	Fresh Water	8.4-8.6	60-70	NC
8 3/4"	500'TVD- 5277'TVD/5790'MD	Fresh Water LSND	8.5-8.8	40-50	8-10

b) Intermediate Casing Point to TD:

Hole Size (in)	MD (ft)	Mud Type	Density (Ib/gal)	Viscosity (sec/qt)	Fluid Loss (cc)
6 1/8"	5790'-10527'	Synthetic Oil Based Mud	8.6-9.0	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, including fresh water and oil-based operations. Above-ground tanks will be utilized to hold cuttings and fluids for rig operations. A frac tank will be on location to store fresh water. Waste will be disposed of properly at an 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 and LOGGING

- a) Drill Stem Testing None anticipated
- b) Coring None anticipated.
- c) Mud 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 +/- 2489 psi based on a 9.0 ppg at 5319' TVD of the landing point of the horizontal lateral. No abnormal pressure or temperatures are anticipated.

No hydrogen sulfide gas is anticipated, however, if  $H_2S$  is encountered, the guidelines in Onshore Order No. 6 will be followed.

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

Drilling is estimated to commence on December 25, 2014. 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 25 days.

County: San J	-T23N-R8W luan ook H09-2308	0111		Er	well s		ural Gas			encana	ENG: RIG:	2/3/14
WELL: LYDIC	OK 109-2300	VIN			** 、	501					GLE: 6890 RKBE: 6906	
MWD	OPEN HOLE	1	DEPTH					н	OLE	CASING	MW	DEVIATION
LWD	LOGGING	FORM	TVD	MD				s	IZE	SPECS	MUD TYPE	INFORMATION
			60	60'	• • •			3	30	<b>20'' 94#</b> 100sx Type I Neat 16ppg cmt	Fresh wtr 8.3-9.2	
Surveys	None					· · ·				9 5/8" 36ppf J55 STC	Fresh wtr	Vertical
After csg is run					•			12	2 1/4		8.4-8.6	<1°
			500	500						TOC @ surface 178 sks Type III Cmt		
		Ojo Alamo Kirtland	983 1146							7" 266 166 1 70		
Surveys	No OH logs	Fruitland Coal	1402			ŕ				7" 26ppf J55 LTC	Fresh Wtr	Vertical
every 500'		Pictured Cliffs Ss Lewis Shale	1691 1791			s	tage tool @1741	1' <b>8</b>	3/4		8.5-8.8	<1°
		Cliffhouse Ss Menefee Fn	3097 3181		1 94 94	() 				TOC @ surface 30% OH excess: 591 sksTotal. Stage 1 Lead: 260sks		
	Mud logger onsite							-		Stage 1 Tail: 178sks. Stage 2 Lead: 153sks		
		Point Lookout Ss Mancos Sh	4015 4241			:						
		KICK OFF PT	4300			Ŋ	$\mathbf{X}$					
		Mancos Silt	4788			$\langle \rangle$						
		Gallup Top	5047									KOP 4300 10 deg/100'
		7" csg	5277	5790			1 /K_					
		horz target	5319	6112				6	1/8	200' overlap at liner top		.25deg updip 5296'TVD
		Base Gallup	5345							4415' Lateral	8.6-9.0 OBM	TD = 10527' MD
Surveys every 500' Gyro	No OH Logs									4 1/2" 11.6ppf SB80 LTC	Switch to OBM 8.6-9.0	
at CP MWD Gamma Directional										Running external swellable csg packers for isolation of prod string Plan on setting top packer within 100' of intermediate casing shoe		

NOTES:

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1) Drill with 30" bit to 60', set 20" 94# conductor pipe

2) Drill surface to 500', R&C 9 5/8" casing

3) N/U BOP and surface equipment

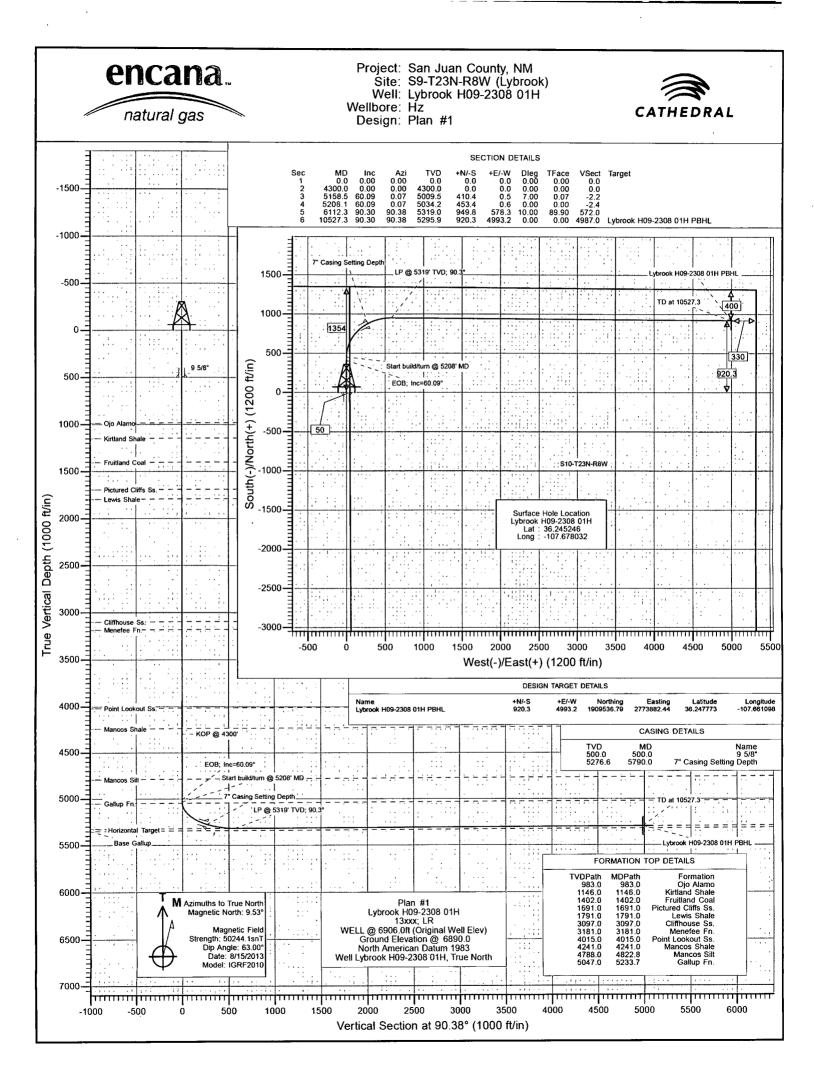
4) Drill to KOP of 4300', 8 3/4" hole size,

5) PU directional tools and start curve at 10deg/100' build rate

6) Drill to casing point of 5790' MD

7) R&C 7" casing, circ cmt to surface, switch to OBM

8) Land at 90deg, drill 4415' lateral to 10527', run 4 1/2" liner with external swellable csg packers



Company: Project: Site: Well: Wellbore:	USA EDM 5000 EnCana Oil & G San Juan Coun S9-T23N-R8W ( Lybrook H09-23 Hz Plan #1	) Multi Users D Gas (USA) Inc ty, NM (Lybrook)	В		Local Co-ordi TVD Reference MD Reference North Referen Survey Calcul	e: e: nce:	WEI WEI True	LL @ 6906.0ft (	2308 01H Original Well El Original Well El	
Design.			·		·	···· • · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
Project	San Juan C	County, NM				•				· · · · · ·
Map System: Geo Datum: Map Zone:		ane 1983 can Datum 198 Western Zone			System Datu	im:	Mea	in Sea Level		
Site	S9-T23N-F	8W (Lybrook)	· · ·					- · · ·		
Site Position: From: Position Uncertain	Lat/Long	g 0.0 ft	Northin Easting Slot Ra	): ]	2,768,8	390.75 ft	Latitude: Longitude: Grid Converge	nce:		36.245246 -107.678032 0.09 °
Well	Lybrook H0	9-2308 01H					· · · · · · · · · · · · · · · · · · ·			
Well Position Position Uncertain	+N/-S +E/-W	0.0 f 0.0 f 0.0 f	t Eas	thing: sting: Ilhead Elevatio		1,908,608.461 2,768,890.751	ft Long	ude: jitude: ind Level:		36.245240 -107.67803 6,890.0 ft
Wellbore	Hz				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Magnetics	Model	Name	Sample	Date	Declinati (°)	ion	Dip An (°)	igle	Field Str (nT	-
		IGRF2010	<u></u>	3/15/2013		9.54		63.00	·····	50,244
										· · · ·
Design Audit Notes: Version:	Plan #1		Phase	: PL	_AN	Tie (	On Depth:	(	0.0	
	Plan #1	Dep	Phase th From (TVI (ft)		_AN +N/-S (ft)	Tie ( +E/	-W	Dire	0.0 ection	
Audit Notes: Version:	Plan #1	Dep	th From (TVI		+N/-S	+E/-	-W ()	Dire (	ction	
Audit Notes: Version: Vertical Section:	Plan #1	Dep	th From (TVI (ft)		+N/-S (ft)	+E/- (ft	-W ()	Dire (	ection (°)	······
Audit Notes: Version: Vertical Section: Plan Sections Measured			th From (TVI (ft)		+N/-S (ft)	+E/- (ft	-W ()	Dire (	ection (°)	Target
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Ind	clination A2		th From (TVI (ft) 0.0 ertical Depth	D) 	+N/-S (ft) 0.0 +E/-W	+E/ (ft 0. Dogleg Rate	-W ) 0 Build Rate	Dire ( 90 Turn Rate	retion (°) 0.38 TFO	Target
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Ind (ft) 0.0 4,300.0	clination Az (°) 0.00 0.00	V zimuth (°) 0.00 0.00	th From (TVI (ft) 0.0 ertical Depth (ft) 0.0 4,300.0	D) +N/-S (ft) 0.0 0.0	+N/-S (ft) 0.0 +E/-W (ft) 0.0 0.0	+E/. (fi 0.1 Dogleg Rate (°/100ft) 0.00 0.00	-W Build Rate (°/100ft) 0.00 0.00	Dire ( 90 Turn Rate (°/100ft) 0.00 0.00	rction (°) 3.38 TFO (°) 0.00 0.00	Target
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Ind (ft) 0.0 4,300.0 5,158.5	clination Az (°) 0.00 0.00 60.09	v zimuth (°) 0.00 0.00 0.07	th From (TVI (ft) 0.0 ertical Depth (ft) 0.0 4,300.0 5,009.5	D) +N/-S (ft) 0.0 0.0 410.4	+N/-S (ft) 0.0 +E/-W (ft) 0.0 0.0 0.5	+E/. (fit 0.1 Dogleg Rate (°/100ft) 0.00 0.00 7.00	-W Build Rate (°/100ft) 0.00 0.00 7.00	Dire ( 90 Turn Rate (°/100ft) 0.00 0.00 0.00	rction (°) 3.38 TFO (°) 0.00 0.00 0.00 0.07	Target
Audit Notes: Version: Vertical Section: Plan Sections Measured Depth Ind (ft) 0.0 4,300.0	clination Az (°) 0.00 0.00	V zimuth (°) 0.00 0.00	th From (TVI (ft) 0.0 ertical Depth (ft) 0.0 4,300.0	D) +N/-S (ft) 0.0 0.0	+N/-S (ft) 0.0 +E/-W (ft) 0.0 0.0	+E/. (fi 0.1 Dogleg Rate (°/100ft) 0.00 0.00	-W Build Rate (°/100ft) 0.00 0.00	Dire ( 90 Turn Rate (°/100ft) 0.00 0.00	rction (°) 3.38 TFO (°) 0.00 0.00	Target

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Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H09-2308 01H	
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6906.0ft (Original Well Elev)	
Project:	San Juan County, NM	MD Reference:	WELL @ 6906.0ft (Original Well Elev)	
Site:	S9-T23N-R8W (Lybrook)	North Reference:	True	
Well:	Lybrook H09-2308 01H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	Hz	-	:	
Design:	Plan #1			
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	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"
1	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
- 1	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
]	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
	983.0	0.00	0.00	983.0	0.0	0.0	0.0	0.00	0.00	Ojo Alamo
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	-1
	1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
	1,146.0	0.00	0.00	1,146.0	0.0	0.0	0.0	0.00	0.00	Kirtland Shale
	1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
	1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
	1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
	1,402.0	0.00	0.00	1,402.0	0.0	0.0	0.0	0.00		Fruitland Coal
	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	
	1,691.0	0.00	0.00	1,691.0	0.0	0.0	0.0	0.00	0.00	Pictured Cliffs Ss.
	1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
	1,791.0	0.00	0.00	1,791.0	0.0	0.0	0.0	0.00		Lewis Shale
	1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
	1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
	2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
	2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
	2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
	2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
	2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
	2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
	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	
	3,097.0	0.00	0.00	3,097.0	0.0	0.0	0.0	0.00		Cliffhouse Ss.
	3,100.0	0.00	0.00	3,100.0	0.0	0.0	. 0.0	0.00	0.00	
	3,181.0	0.00	0.00	3,181.0	0.0	0.0	0.0	0.00	0.00	Menefee Fn.
	3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
	3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
	3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
	3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
	3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
	3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
	3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
	3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
Ì	4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	
	4,015.0	0.00	0.00	4,015.0	0.0	0.0	0.0	0.00	0.00	Point Lookout Ss.
	4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	
	4,200,0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
	4,241.0	0.00	0.00	4,241.0	0.0	0.0	0.0	0.00		Mancos Shale

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Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H09-2308 01H WELL @ 6906.0ft (Original Well Elev)			
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:				
Project:	San Juan County, NM	MD Reference:	WELL @ 6906.0ft (Original Well Elev)			
Site:	S9-T23N-R8W (Lybrook)	North Reference:	True			
Well:	Lybrook H09-2308 01H	Survey Calculation Method:	Minimum Curvature			
Wellbore:	Hz					
Design:	; Plan #1					

#### Measured Vertical Vertical Dogleg Build Comments / Depth Depth Section Rate Rafe Formations Inclination Azimuth +N/-S +E/-W (°/100ft) (°/100ft) (ft) (ft) (ft) (ft) (ft) (°) (°) 4,300.0 0.00 0.0 0.00 4,300.0 0.0 0.0 0.00 0.00 KOP @ 4300 4,400.0 4,399.8 7 00 0.07 61 0.0 0.0 7 00 7.00 4,500.0 14.00 0.07 4,498.0 24.3 0.0 -0.1 7.00 7.00 4,600.0 21.00 0.07 4,593.3 54.4 0.1 -0.3 7.00 7.00 4,700.0 0.07 7.00 28.00 4 684 3 95.8 7.00 0.1 -0.5 4,800.0 35.00 0.07 4,769.5 148.0 0.2 -0.8 7.00 7.00 4,822.8 36.60 0.07 4,788.0 161.4 0.2 -0.9 7.00 7.00 Mancos Silt 4,900.0 42.00 0.07 210.2 4.847.7 0.3 -1.1 7.00 7.00 0.07 4,917.7 5,000.0 49.00 281.5 0.3 -1.5 7.00 7.00 5,100.0 56.00 0.07 4,978.6 360.8 0.4 7.00 7.00 -1.9 5,158.5 60.09 0.07 5,009.5 410.4 0.5 -2.2 7.00 7.00 EOB; Inc=60.09° 5,200.0 60.09 0.07 5,030.2 446.4 0.6 -2.4 0.00 0.00 5,208.1 60.09 0.07 5,034.2 453.4 0.6 -2.4 0.00 0.00 Start build/turn @ 5208' MD 5,233.7 60.13 3.03 5,047.0 475.6 1.2 -2.0 10.00 0.15 Gallup Fn. 5,300.0 10.65 532.7 60.53 10.00 5.079.9 8.0 4.5 0.61 5,400.0 61.94 21.94 5,128.1 616.7 32.6 28.5 10.00 1.41 5,500.0 64.25 32.86 5,173.5 695.6 73.6 69.0 10.00 2.30 43.29 767.2 5.600.0 67.33 5.214.6 129.9 124.8 10.00 3.08 71.06 53.23 829.3 199.6 5,700.0 5,250.2 194.0 10.00 3.73 5,790.0 74.84 61.77 5,276.6 875.4 272.1 266.3 10.00 4.21 7" Casing Setting Depth 5.800.0 75.29 62.70 5.279.2 879.9 280.6 274.8 10.00 4.42 5,900.0 79.88 71.79 5,300.7 917.5 370.6 364.5 10.00 4.60 385.5 5,915.9 80.64 73.21 5,303.4 922.2 379.4 10.00 4.76 Lybrook H09-2308 01H POE 4.86 6,000.0 84.73 80.63 5,314.1 941.1 466.7 460.4 10.00 6,100.0 89.32 559.8 89 69 5.319.0 949.8 566 1 10.00 4 96 6,112.3 90.30 90.38 5,319.0 949.8 578.3 572.0 10.00 4.99 LP @ 5319' TVD; 90.3° 6,200.0 90.30 90.38 5,318.5 949.3 666.1 659.8 0.00 0.00 6,300.0 90.30 90.38 5,318.0 948.6 766.1 759.8 0.00 0.00 6,400.0 90.38 947.9 866.1 0.00 90.30 5,317.5 859.8 0.00 90.30 90.38 5,317.0 947.3 966.1 959.8 0.00 0.00 6,500.0 90.38 1,066.1 90.30 5.316.4 946.6 1.059.7 0.00 0.00 6.600.0 6,700.0 90.30 90.38 5.315.9 945.9 1,166.0 1,159.7 0.00 0.00 6.800.0 90.30 90.38 5,315.4 945.2 1,266.0 1,259.7 0.00 0.00 6.900.0 90.30 90.38 5,314.9 944.6 1,366.0 1,359.7 0.00 0.00 943.9 1,466.0 1,459.7 0.00 0.00 7,000.0 90.30 90.38 5.314.3 7,100.0 90.30 90.38 5,313.8 943.2 1,566.0 1,559.7 0.00 0.00 7,200.0 1,666.0 90.30 90.38 5,313.3 942.6 1,659.7 0.00 0.00 90.38 941.9 1,766.0 1,759.7 0.00 0.00 7,300.0 90.30 5,312.8 1,866.0 1,859.7 0.00 0.00 90.30 90.38 5.312.3 941.2 7,400.0 7,500.0 90.30 90.38 5,311.7 940.6 1.966.0 1,959.7 0.00 0.00 7,600.0 939.9 2,066.0 0.00 0.00 90.30 90.38 5,311.2 2,059.7 2,166.0 2 159 7 0.00 0.00 90.38 939.2 7,700.0 90.30 5.310.7 7,800.0 90.38 5,310.2 938.6 2,266.0 2,259.7 0.00 0.00 90.30 90.38 5,309.6 937.9 2,366.0 2,359.7 0.00 0.00 7.900.0 90.30 90.38 937.2 2,466.0 2,459.7 0.00 0.00 5.309.1 8,000.0 90.30 90.30 90.38 5,308.6 936.6 2,566.0 2.559.7 0.00 0.00 8,100.0 0.00 90.30 90.38 5,308.1 935.9 2,666.0 2,659.7 0.00 8,200.0 2,766.0 2,759.7 0.00 0.00 8,300.0 90.30 90.38 5,307.5 935.2 0.00 0.00 8,400.0 90.30 90.38 5,307.0 934.5 2.866.0 2.859.7 933.9 2,966.0 2,959.7 0.00 0.00 90.30 90.38 5,306.5 8.500.0 3,066.0 3,059.7 0.00 0.00 933.2 8,600.0 90.30 90.38 5.306.0 0.00

8,700.0

90.30

90.38

5,305.4

932.5

3,159.7

0.00

3,166.0

Database:	USA EDM 5000 Multi Users DB	, Local Co-ordinate Reference:	Well Lybrook H09-2308 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	, WELL @ 6906.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6906.0ft (Original Well Elev)
Site:	S9-T23N-R8W (Lybrook)	North Reference:	True
Well:	Lybrook H09-2308 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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
8,800.0	90.30	90.38	5,304.9	931.9	3,266.0	3,259.7	0.00	0.00	
8,900.0	90.30	90.38	5,304.4	<del>9</del> 31.2	3,366.0	3,359.7	0.00	0.00	
9,000.0	90.30	90.38	5,303.9	930.5	3,466.0	3,459.7	0.00	0.00	
9,100.0	90.30	90.38	5,303.4	929.9	3,566.0	3,559.7	0.00	0.00	
9,200.0	90.30	90.38	5,302.8	929.2	3,666.0	3,659.7	0.00	0.00	
9,300.0	90.30	90.38	5,302.3	928.5	3,766.0	3,759.7	0.00	0.00	
9,400.0	90.30	90.38	5,301.8	927.9	3,865.9	3,859.7	0.00	0.00	
9,500.0	90.30	90.38	5,301.3	927.2	3,965.9	3,959.7	0.00	0.00	
9,600.0	90.30	90.38	5,300.7	926.5	4,065.9	4,059.7	0.00	0.00	
9,700.0	90.30	90.38	5,300.2	925.9	4,165.9	4,159.7	0.00	0.00	
9,800.0	90.30	90.38	5,299.7	925.2	4,265.9	4,259.7	. 0.00	0.00	
9,900.0	90.30	90.38	5,299.2	924.5	4,365.9	4,359.7	0.00	0.00	
10,000.0	90.30	90.38	5,298.6	923.9	4,465.9	4,459.7	0.00	0.00	
10,100.0	90.30	90.38	5,298.1	923.2	4,565.9	4,559.7	0.00	0.00	
10,200.0	90.30	90.38	5,297.6	922.5	4,665.9	4,659.7	0.00	0.00	
10,300.0	90.30	90.38	5,297.1	921.8	4,765.9	4,759.7	0.00	0.00	
10,400.0	90.30	90.38	5,296.5	921.2	4,865.9	4,859.7	0.00	0.00	
10,500.0	90.30	90.38	5,296.0	920.5	4,965.9	4,959.7	0.00	0.00	
10,527.3	90.30	90.38	5,295.9	920.3	4,993.2	4,987.0	0.00	0.00	TD at 10527.3 - Lybrook H09-2308 01H PB

Targets									· · · · · · · · · ·
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Lybrook H09-2308 01F - plan hits target c - Point		0.00	5,295.9	920.3	4,993.2	1,909,536.79	2,773,882.44	36.247773	-107.661098
Lybrook H09-2308 01F - plan misses targ - Point		0.00 2ft at 5915.9ft	5,319.0 MD (5303.4	951.2 4 TVD, 922.2 I	376.2 N, 385.5 E)	1,909,560.26	2,769,265.46	36.247859	-107.676756

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
 500.0	500.0	9 5/8"	0.000	0.000	
5,790.0	5,276.6	7" Casing Setting Depth	0.000	0.000	

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Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Lybrook H09-2308 01H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6906.0ft (Original Well Elev)
Project:	San Juan County, NM	MD Reference:	WELL @ 6906.0ft (Original Well Elev)
Site:	S9-T23N-R8W (Lybrook)	North Reference:	True
Well:	Lybrook H09-2308 01H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz	:	
Design:	Plan #1	,	1
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## Formations

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Measured	Vertical				Dip
Depth	Depth			Dip	Direction
(ft)	(ft)	Name	Lithology	(°)	(°)
983.0	983.0	Ojo Alamo		-0.30	90.38
1,146.0	1,146.0	Kirtland Shale		-0.30	90.38
1,402.0	1,402.0	Fruitland Coal		-0.30	90.38
1,691.0	1,691.0	Pictured Cliffs Ss.		-0.30	90.38
1,791.0	1,791.0	Lewis Shale		-0.30	90.38
3,097.0	3,097.0	Cliffhouse Ss.		-0.30	90.38
3,181.0	3,181.0	Menefee Fn.		-0.30	90.38
4,015.0	4,015.0	Point Lookout Ss.		-0.30	90.38
4,241.0	4,241.0	Mancos Shale		-0.30	90.38
4,822.8	4,788.0	Mancos Silt		-0.30	90.38
5,233.7	5,047.0	Gallup Fn.		-0.30	90.38

Plan Annotations	н			an a	· · · · · · · · · · · · · · · · · · ·
м	easured	Vertical	Local Coor	dinates	
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	4,300.0	4,300.0	0.0	0.0	KOP @ 4300'
	5,158.5	5,009.5	410.4	0.5	EOB; Inc=60.09°
	5,208.1	5,034.2	453.4	0.6	Start build/turn @ 5208' MD
	6,112.3	5,319.0	949.8	578.3	LP @ 5319' TVD, 90.3°
	10,527.3	5,295.9	920.3	4,993.2	TD at 10527.3

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# ENCANA OIL & GAS (USA) INC.

LYBROOK H09-2308 #01H 1354' FNL & 50' FEL LOCATED IN THE SE/4 NE/4 OF SECTION 9, T23N, R8W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

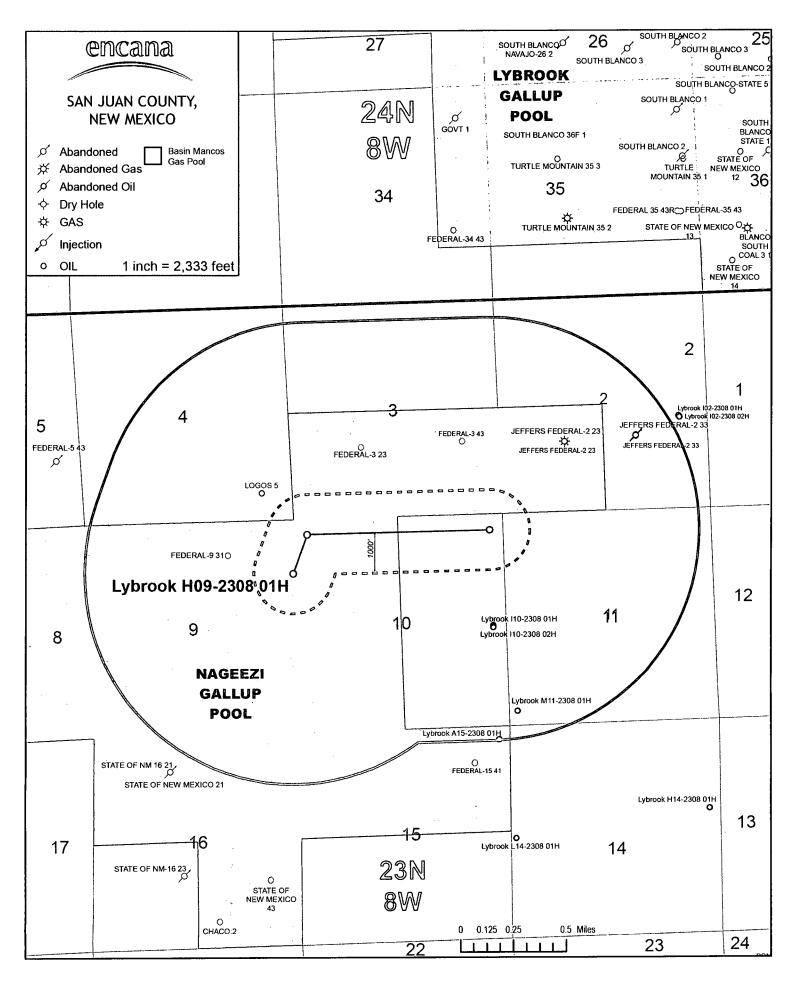
# DIRECTIONS

- 1) FROM THE INTERSECTION OF US HWY 550 AND US HWY 64, TRAVEL SOUTH ON US HWY 550 FOR 40.3 MILES, MP111.3.
- 2) TURN RIGHT AND GO 0.1 MILES WHERE ACCESS IS STAKED ON LEFT SIDE OF ROAD JUST BEFORE EXISTING LOCATION.

WELL FLAG LOCATED AT LAT. 36.245246° N, LONG.107.678032° W (NAD 83).



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



# WELLHEAD BLOWOUT CONTROL SYSTEM



Well name and number:

Lybrook H09-2308 01H

