	UNITED STATES PARTMENT OF THE INTER	110111111		on الم	DRM APPROVED MB No. 1004-0137 pires: July 31, 2010
SUNDRY I Do not use this	REAU OF LAND MANAGEN NOTICES AND REPORTS form for proposals to drill Use Form 3160-3 (APD) f	ON WELLS I or to re-enter an		NO-G-0905-1759/NC 6. If Indian, Allottee or Navajo Allottee Allotment No. 25880	Tribe Name
·····		Num with the state	11 11 11	7. If Unit of CA/Agree	ment, Name and/or No.
I. Type of Well Gas V		MAR 27 20		8. Well Name and No. Good Times P34-24	10 01H
2. Name of Operator Encana Oil & Gas (USA) Inc.		Farmington Field	Office	9. API Well No. 30-045-35367	ан ай ал тада ай
3a. Address 370 17th Street, Suite 1700 Denver, CO 80202	720-87	JRONU (Mchilde area coo	le) Berner	10. Field and Pool or E South Bisti-Gallup	xploratory Area
4. Location of Well <i>(Footage, Sec., T.</i> SHL: 675' FSL and 330' FEL Sec 34, T24N, R' BHL: 675' FSL and 330' FWL Sec 34, T24N, R	,R.,M., or Survey Description) Iow 10W			11. Country or Parish, San Juan, NM	State
12. CHE	CK THE APPROPRIATE BOX(ES)	TO INDICATE NATURE	OF NOTIC	E, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION		TY	PE OF ACT	ION	
Notice of Intent	Acidize	Deepen Fracture Treat		uction (Start/Resume)	Water Shut-Off
Subsequent Report	Casing Repair	New Construction Plug and Abandon Plug Back	Temp	mplete porarily Abandon r Disposal	Other
determined that the site is ready for Encana Oil & Gas (USA) Inc. (Enc. would like to change the intermedia attached 10 point drilling plan and	ana) would like to revise the hole s ate hole size from 8 1/2" to 8 3/4" a	and change the cement	ing prograr	n to accomidate the h	
					RCVD APR 8 '13 OIL CONS. DIV. DIST. 3
operator from obt	LIEVE THE LESSEE AND AINING ANY OTHER URRED FOR OPERATIONS			IDITIONS OF A e to previously issu	
14. I hereby certify that the foregoing is Name (<i>Printed/Typed</i>)Amie Weis	true and correct.	Title Drilling E	Engineer		
Signature Avin V	ww	Date 3/ G	16/20	013	· · · · · · · · · · · · · · · · · · ·
	THIS SPACE FOR	FEDERAL OR ST	ATE OFF	ICE USE	
Approved by Troy L Salvers Conditions of approval, if any, are attach that the applicant holds legal or equitable entitle the applicant to conduct operation	title to those rights in the subject lease v s thereon.	rrant or certify which would Office F	toleum Fo	3	Date 8 4 2 2013
Title 18 U.S.C. Section 1001 and Title 4 fictitious or fraudulent statements or rep			nd willfully t	o make to any departmen	t or agency of the United States any fals

(Instructions on page 2)

NMOCDAY

	4-T24N-R10W	/		En	cana Natural (Sas		encana.	ENG: J. Fox/ A.	3/26/13
ounty: San J	uan Times P34-2	410.01H			WELL SUMMAR	Y			RIG: GLE: 6759	
		410 0111				•		natural gas	RKBE: 6772	
MWD	OPEN HOLE		DEPTH				HOLE	CASING	MW	DEVIATION
LWD	LOGGINGFO	RM	TVD	MD			SIZE	SPECS	MUD TYPE	INFORMATION
			60	60'			30	20'' 94# 100sx Type I Neat 48.8ppg cmt	Fresh wtr 8.3-9.2	
Surveys	None							9 5/8" 36ppf J55 STC	Fresh wtr	Vertical
lfter csg is run		Ojo Alamo	392				12 1/4		8.4-8.6	<1º
	·		500	_500				TOC @ surface 178 sks Type III Cmt		
	No OH logs	Kirtland Fruitland Coal	522 807					7" 26ppf J55 LTC	Fresh Wtr	
Surveys every 500'	no ornoga	Pictured Cliffs Ss Lewis Shale	1179 1360		Stage too	@1230'	8 3/4		8.5-8.8	Vertical <1º
	Mud logger onsite	Cliffhouse Ss Menefee Fn Point Lookout Ss Mancos Sh	1985 2542 3580 3782					TOC @ surface 30% OH excess: 512 sksTotal. Stage 1 Lead: 241sks Stage 1 Tail: 166sks. Stage 2 Lead: 106sks		
		KICK OFF PT	<u>4255</u>			Ň				
		Gallup Top	4568	5157 4980						KOP 4255 10 deg/100'
		horz target	4828	5157			6 1/8	200' overlap at liner top		.25deg updip 4814'TVD
		Base Gallup	4877	÷				4010' Lateral	8.6-9.0 OBM	TD = 9166' 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		

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

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

a) N/U BOP and surface equipment
b) Drill to KOP of 4255', 8 3/4" hole size,

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

6) Drill to casing point of 4980' MD (72deg)

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

8) Land at 90deg, drill 4010' lateral to 9166', run 4 1/2" liner with external swellable csg packers

Encana Oil & Gas (USA) Inc. Drilling Plan

1. ESTIMATED TOPS OF GEOLOGICAL MARKERS (TVD)

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth (TVD)</u>
Ojo Alamo Ss.	392'
Kirtland	522'
Fruitland Coal	807'
Pictured Cliffs	1179'
Lewis	1360'
Cliffhouse	1985'
Menefee	2542'
Point Lookout	3580'
Mancos Shale	3782'
Gallup	4568'

The referenced surface elevation is 6759', KB 6772'

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

Substance	Formation	Depth (TVD)
Gas	Fruitland Coal	807'
Gas	Pictured Cliffs	1179'
Gas	Cliffhouse	1985'
Gas	Point Lookout	3580'
Oil/Gas	Mancos	3782'

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.
- 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.

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'-4980'MD	8 3/4"	7"	26#	J55, LTC New
Production Liner	4780'-9166'	6 1/8"	4 1/2"	11.6#	B80*, LTC New

a)	The prop	osed casing	desian is	as follows:
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	Casing String			Casing Strength Properties			Minimum Design Factors		
Size	Weight (Ib/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 48.8ppg cmt	Surface	None
Surface	500'	178sk	Type III Cement + 1% CaCl + 0.25lb/sk Cello Flake + 0.2% FL, 14.6ppg, 1.38cuf/sk	Surface	1 per joint on bottom 3 joints
Intermediate	4980'	30% open hole excess Stg 1 Lead: 241sks Stg 1 Tail: 166sks Stg 2 Lead: 106sks	Lead: PremLite + 3% CaCl + 0.25lb/sk CelloFlake + 5lb/sk LCM, 12.1ppg 2.13cuft/sk Tail: Type III Cmt + 1% CaCl + 0.25lb/sk Cello Flake 14.5ppg 1.38cuft/sk	Surface	1 per joint for bottom 3 joints, 1 every 3 joints for remaining joints
Production Liner*	4780'- 9166'	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 4255'. Directional plans are attached to original APD.

Description	Proposed Depth (TVD/MD)	Formation	
Horizontal Lateral TD	4814'/9166'	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- 4800'TVD/4980'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"	4980'-9166'	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 +/- 2259 psi based on a 9.0 ppg at 4828' 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.

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9. ANTICIPATED START DATE AND DURATION OF OPERATIONS

Drilling is estimated to commence on September 26, 2013. 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.