



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1099083
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1099083

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	EnCana Oil & Gas (USA) Inc.
Well Name	PABST FARM 3H 2
Doc ID	1099083

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	8420-8619	2788 bbs sw & 50,000# proppant	8420-8619
8	7892-8223	2683 bbls sw & 50,000# proppant	7892-8223
8	7496-7827	2736 bbls sw & 47,786# proppant	7496-7827
8	7100-7432	2669 bbls sw & 50,380# proppant	7100-7432
8	6704-7036	no frac	6704-7036
8	6308-6639	no frac	6308-6639
8	5912-6243	2749 bbls sw & 50,667# proppant	5912-6243
8	5516-5848	2616 bbls sw & 50,055# proppant	5516-5848
8	5120-5452	2758 bbls sw & 50,619# proppant	5120-5452
8	4724-5056	2916 bbls sw & 53,420# proppant	4724-5056

Form	ACO1 - Well Completion
Operator	EnCana Oil & Gas (USA) Inc.
Well Name	PABST FARM 3H 2
Doc ID	1099083

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	20	14	46	60	grout	56	
Surface	12.250	9.625	36.0	1366	Standard	590	2%CaCl+.125# poly-e-flake
Intermediate	8.750	7.0	26.0	4691	Standard	280	.25# poly-e-flake
Production	6.125	4.50	11.60	8715	Standard	315	.25# poly-e-flake

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078		Ship To #: 2937798		Quote #:		Sales Order #: 9650093								
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: McNabb, Randy										
Well Name: Pabst Farm 3H			Well #: 2		API/UWI #: 15-135-25396									
Field:		City (SAP): NESS CITY		County/Parish: Ness		State: Kansas								
Legal Description: Section 3 Township 18S Range 31W														
Contractor: Precision			Rig/Platform Name/Num: 209											
Job Purpose: Cement Surface Casing														
Well Type: Development Well				Job Type: Cement Surface Casing										
Sales Person: DAIGLE, COLTER			Srcv Supervisor: CARRILLO, EDUARDO			MBU ID Emp #: 371263								
Job Personnel														
HES Emp Name		Exp Hrs	Emp #	HES Emp Name		Exp Hrs	Emp #							
BERUMEN, EDUARDO		5.5	267804	CARRILLO, EDUARDO Carrillo		5.5	371263							
LUONG, JOHN M		5.5	497077	REDFEARN, BRADY Tanner		5.5	497317							
LUNA, JOSE A		5.5	480456											
Equipment														
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way							
Job Hours														
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours						
7-07-2012	5.5	3.5												
TOTAL				<i>Total is the sum of each column separately</i>										
Job				Job Times										
Formation Name				Date		Time	Time Zone							
Formation Depth (MD) Top		Bottom		Called Out		07 - Jul - 2012	04:30 CST							
Form Type		BHST		On Location		07 - Jul - 2012	10:30 CST							
Job depth MD		1369. ft	Job Depth TVD	1369. ft	Job Started		07 - Jul - 2012 13:48 CST							
Water Depth		Wk Ht Above Floor		5. ft	Job Completed		07 - Jul - 2012 15:12 GMT							
Perforation Depth (MD) From		To		Departed Loc		07 - Jul - 2012	17:00 CST							
Well Data														
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft			
Surface Casing Open Hole				12.25				40.	1400.					
Preset Conductor	Unknown		13.375	12.415	68.			.	40.					
Surface Casing	Unknown		9.625	8.921	36.			.	1400.					
Sales/Rental/3rd Party (HES)														
Description						Qty	Qty uom	Depth	Supplier					
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA						1	EA							
Tools and Accessories														
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	
Guide Shoe					Packer					Top Plug	9 5/8	1	H	
					Bridge Plug					Bottom Plug				
Float Collar					Retainer					SSR plug set				
Insert Float										Plug Container	9 5/8	1	H	
Stage Tool										Centralizers				
Miscellaneous Materials														
Gelling Agt		Conc			Surfactant		Conc			Acid Type		Qty	Conc	%
Treatment Fld		Conc			Inhibitor		Conc			Sand Type		Size	Qty	

HALLIBURTON

Cementing Job Summary

Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	ExtendaCem	EXTENDACEM (TM) SYSTEM (452981)	440.0	sacks	12.4	2.1	11.61		11.61	
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
	0.25 lbm	POLY-E-FLAKE (101216940)								
	11.607 Gal	FRESH WATER								
2	HalCem	HALCEM (TM) SYSTEM (452986)	150.0	sacks	15.6	1.2	5.32		5.32	
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)								
	0.125 lbm	POLY-E-FLAKE (101216940)								
	5.319 Gal	FRESH WATER								
3	Displacement (TBC)			bbl	.	.0	.0	.0		
4	HalCem	HALCEM (TM) SYSTEM (452986)		sacks	15.6	1.18	5.25		5.25	
	5.245 Gal	FRESH WATER								
Calculated Values			Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad		
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment		
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job		
Rates										
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6			
Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint						
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID			
The Information Stated Herein Is Correct				Customer Representative Signature						
				<i>Randy Mc...</i>						

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2937798	Quote #:	Sales Order #: 9650093
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: McNabb, Randy	
Well Name: Pabst Farm 3H	Well #: 2	API/UWI #: 15-135-25396	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 3 Township 18S Range 31W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Precision		Rig/Platform Name/Num: 209	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: DAIGLE, COLTER		Srv Supervisor: CARRILLO, EDUARDO	MBU ID Emp #: 371263

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/07/2012 04:30							Dispach Calle Cement Crew Out For The Encana Oil Job On Well Pabst Farm 3H # 2. A 9 5/8 Surface Job
Other	07/07/2012 05:31							Loading Equipment.
Pre-Convoy Safety Meeting	07/07/2012 06:10							Discussed All Routs To Take And Hazards On The Road. Discussed All Stops.
Arrive At Loc	07/07/2012 10:30							
Assessment Of Location Safety Meeting	07/07/2012 10:35							Rig Was Triping Out Of With Drill Pipe
Other	07/07/2012 10:50							Got Numbers From Customer Rep Randy McNabb // TD = 1367 FT // TP = 1369.65 FT // SJ = 38.94 FT. Displacement = 103 BBLS Fresh Water
Pre-Rig Up Safety Meeting	07/07/2012 11:30							Discussed All Red Zones Were To Spot In Equipment And Run Lines. Have Spoter At All Times. Whent Over JSA.
Rig-Up Completed	07/07/2012 12:30							
Wait on Customer or Customer Sub-Contractor Equip	07/07/2012 12:35							Wating On Rig.
Other	07/07/2012 12:45							Casing At Bottom

Activity Description	Date/Time	Cht	Rate bbl/min	Volume bbl	Pressure psig	Comments
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Sold To #: 340078

Ship To #: 2937798

Quote #:

Sales Order #:

9650093

SUMMIT Version: 7.3.0030

Saturday, July 07, 2012 04:16:00

HALLIBURTON

Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Other	07/07/2012 13:10							Rig Circulating Customer Rep Said They Were Going To Circulat For 30 MIN.
Pre-Job Safety Meeting	07/07/2012 13:15							Discussed Job Step With All On Location Whent Over Numbers With Customer Rep Pumping Rates And PSI. Had Rig Hands Sign Safety Sheet. Customer Rep Said To Pump At 6 BPM.
Other	07/07/2012 13:16							Customer Said Once We Bumped Plug And Checked Floats To Rig Down Plug Contaner Then Wait 20 Min. To See If CMT Was Going To Drop If So We Would Run The Top Out CMT. Also Let Them Know We Had 100 LBM Of Suger So They Could Use It On Pits.
Start Job	07/07/2012 13:48							
Test Lines	07/07/2012 13:51						2500.0	Test Lines @ 2500 PSI. Heal For 1 Min.
Pump Spacer 1	07/07/2012 13:53		4	20	20		100.0	Pumped 20 BBLS H2O Fresh Water.
Pump Lead Cement	07/07/2012 13:59		6	165	185		250.0	Pumped 440 SKS CMT @ 12 .4 PPG // 440 = 165 BBLS CMT // 4400 X 2.1 = 924 CU/FT Lead CMT.
Pump Tail Cement	07/07/2012 14:34		6	32	217		300.0	Pumped 150 SKS CMT @ 15.6 PPG // 15 0 = 32 BBLS CMT // 150 X 1.2 = 180 CU/FT CMT Tail CMT.
Shutdown	07/07/2012 14:43							
Drop Plug	07/07/2012 14:44							
Other	07/07/2012 14:44							Got CMT Returs To Surface Just As We Shut Down To Drop Plug. Got 103 BBLS CMT Returns To Surface.

Sold To #: 340078

Ship To #: 2937798

Quote #:

Sales Order #:

9650093

SUMMIT Version: 7.3.0030

Saturday, July 07, 2012 04:16:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	07/07/2012 14:46		6	103	320		400.0	Pumped 103 BBLS Fresh Water Displacement.
Displ Reached Cmnt	07/07/2012 15:02							
Slow Rate	07/07/2012 15:05		2.5	103	320		550.0	Slowed Down Last 10 BBLS Displacement @ 2.5 BPM.
Bump Plug	07/07/2012 15:08		2.5	103	320		650.0	Bumped @ 650 Took To 1191 PSI. Finel Lift Pressuer
Check Floats	07/07/2012 15:10							Check Float Got 1 1/2 BBLS Back Floats Are Good.
End Job	07/07/2012 15:12							
Pre-Rig Down Safety Meeting	07/07/2012 15:40							Discussed All Red Zones Proper Lifting Spoting Equipment Out Of Location
Rig-Down Completed	07/07/2012 16:40							
Other	07/07/2012 16:50							Thank You Ed And Crew Halliburton.
Crew Leave Location	07/07/2012 17:00							Discussed All Routs And Stops Back To Yard.

Sold To #: 340078

Ship To #: 2937798

Quote #:

Sales Order #:

9650093

SUMMIT Version: 7.3.0030

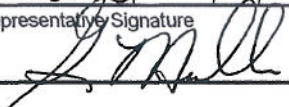
Saturday, July 07, 2012 04:16:00

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078		Ship To #: 2937798		Quote #:		Sales Order #: 9667836					
Customer: ENCANA OIL & GAS (USA) INC. - EBUS				Customer Rep: McNabb, Randy							
Well Name: Pabst Farm 3H			Well #: 2		API/UWI #: 15-135-25396						
Field:		City (SAP): NESS CITY		County/Parish: Ness		State: Kansas					
Legal Description: Section 3 Township 18S Range 31W											
Contractor: Precision				Rig/Platform Name/Num: 209							
Job Purpose: Cement Intermediate Casing											
Well Type: Development Well				Job Type: Cement Intermediate Casing							
Sales Person: DAIGLE, COLTER			Srvc Supervisor: KLAUSE, JOHN		MBU ID Emp #: 456246						
Job Personnel											
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #			
GOMEZ, OSCAR	8	490448	KLAUSE, JOHN David	8	456246	WIFA, HENRY Neniebari	8	491916			
Equipment											
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way				
10741245	165 mile	10924982	165 mile	10990703	165 mile	10995019	165 mile				
11706683	165 mile										
Job Hours											
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours			
7-16	8										
TOTAL		Total is the sum of each column separately									
Job				Job Times							
Formation Name				Date	Time	Time Zone					
Formation Depth (MD)	Top	Bottom		Called Out	7-15	1800					
Form Type	BHST			On Location	7-16	0200					
Job depth MD	4660. ft		Job Depth TVD	Job Started	7-16	0600					
Water Depth	Wk Ht Above Floor			Job Completed	7-16	0800	GMT				
Perforation Depth (MD)	From	To		Departed Loc	7-16	1000					
Well Data											
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Intermediate Open Hole				8.75				1400.	4660.	850.	4280.
Intermediate Casing	Unknown		7.	6.366	23.		N-80		4660.		4280.
Surface Casing	Unknown		9.625	8.921	36.				1400.		
Sales/Rental/3rd Party (HES)											
Description				Qty	Qty uom	Depth	Supplier				
PLUG,CMTG, TOP, 7, HWE, 5.66 MIN/6.54 MAX CS				1	EA						
Tools and Accessories											
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make			
Guide Shoe					Packer			Top Plug			
Float Shoe					Bridge Plug			Bottom Plug			
Float Collar					Retainer			SSR plug set			
Insert Float								Plug Container			
Stage Tool								Centralizers			
Miscellaneous Materials											
Gelling Agt		Conc		Surfactant		Conc	Acid Type	Qty	Conc	%	
Treatment Fld		Conc		Inhibitor		Conc	Sand Type	Size	Qty		

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Standard	CMT - STANDARD CEMENT (100003684)	280.0	sacks	15.6	1.18	5.2		5.2
	94 lbm	CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	5.204 Gal	FRESH WATER							
Calculated Values		Pressures		Volumes					
Displacement	177	Shut In: Instant	1503	Lost Returns	0	Cement Slurry	59	Pad	
Top Of Cement	2548	5 Min		Cement Returns	0	Actual Displacement	177	Treatment	
Frac Gradient	NA	15 Min		Spacers	20	Load and Breakdown	NA	Total Job	
Rates									
Circulating	8	Mixing	5	Displacement	8	Avg. Job	7.2		
Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature 					

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2937798	Quote #:	Sales Order #: 9667836
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: McNabb, Randy	
Well Name: Pabst Farm 3H	Well #: 2	API/UWI #: 15-135-25396	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 3 Township 18S Range 31W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Precision		Rig/Platform Name/Num: 209	
Job Purpose: Cement Intermediate Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: DAIGLE, COLTER		Srvc Supervisor: KLAUSE, JOHN	MBU ID Emp #: 456246

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/15/2012 18:00							
Pre-Convoy Safety Meeting	07/15/2012 19:00							DISCUSS ROUTE AND POSSIBLE ROAD HAZARDS
Depart from Service Center or Other Site	07/15/2012 20:00							
Arrive At Loc	07/16/2012 02:00							SPOT EQUIPMENT; GO OVER JOB AND GET NUMBERS FROM COMPANY MAN
Pre-Rig Up Safety Meeting	07/16/2012 02:15							DISCUSS PINCH POINTS AND TRIPPING HAZARDS ON LOCATION
Rig-Up Completed	07/16/2012 04:47							
Wait on Customer or Customer Sub-Contractor Equip	07/16/2012 04:47							CUSTOMER RUNNING CASING
Other	07/16/2012 05:47							CUSTOMER ON BOTTOM WITH CASING AND CIRCULATING; FULL RETURNS
Wait on Customer or Customer Sub-Contractor Equipm	07/16/2012 06:38							CUSTOMER DONE CIRCULATING AND READY FOR HES CEMENT JOB
Pre-Job Safety Meeting	07/16/2012 06:38							GO OVER JOB W RIG CREW AND SAFTEY HAZARDS WITH PUMPING CEMENT JOB
Test Lines	07/16/2012 07:08							TEST LINES 5000 PSI

Sold To #: 340078

Ship To #: 2937798

Quote #:

Sales Order #:

9667836

QUANTITY: 7.0000

DATE: 11-10-2010 09:05:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer	07/16/2012 07:10		3.2	20			233.0	PUMP FRESH WATER
Pump Cement	07/16/2012 07:19		4.9	59			436.0	PUMP TAIL SLURRY @ 15.6# (280 sks)
Drop Plug	07/16/2012 07:33							CHECK TT; PLUG LEFT HEAD
Pump Displacement	07/16/2012 07:33		6.2	177			92.0	PUMP FRESH WATER DISPLACEMENT; CAUGHT CEMENT @ 98 BBLS GONE
Slow Rate	07/16/2012 07:58							SLOW RATE WHEN 10BBLS FROM TOTAL DISPLACEMENT
Bump Plug	07/16/2012 08:02							GO 500 OVER DIFFERENTIAL PRESSURE; BUMP PLUG @ 859 PSI; FINAL C.P. @ 1508
Check Floats	07/16/2012 08:05							FLOATS HELD; 1 BBL FLOWBACK
Pre-Rig Down Safety Meeting	07/16/2012 08:15							DISCUSS PINCH POINTS AND RIG FLOOR HAZARDS
Rig-Down Completed	07/16/2012 10:15							
Depart Location for Service Center or Other Site	07/16/2012 10:30							THANK YOU FOR USING HALLIBURTON JOHN KLAUSE AND CREW

Sold To # : 340078

Ship To # : 2937798

Quote # :

Sales Order # :

9667836

QUANTITY: 70 0000

DATE: 11 16 2012 09 05 00

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2937798	Quote #:	Sales Order #: 9691466
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Millins, Greg	
Well Name: Pabst Farm 3H	Well #: 2	API/UWI #: 15-135-25396	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 3 Township 18S Range 31W			
Contractor: Precision		Rig/Platform Name/Num: 209	
Job Purpose: Cement Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
Sales Person: DAIGLE, COLTER		Srcv Supervisor: RODRIGUEZ, EDGAR MBU ID Emp #: 442125	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CLEMENS, ANTHONY Jason	8	198516	MARTINEZ, JOSEPH	9	523879	MCCLELLAN, JAMES	9	496019
REDFEARN, BRADY	9	497317	RODRIGUEZ, EDGAR Alejandro	9	442125	TORRES, CLEMENTE	9	344233

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
7/28/2012	8	3						

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type	87250. ft	BHST	Job Depth TVD	On Location	28 - Jul - 2012	03:20	CST
Job depth MD	87250. ft	Job Depth TVD	8725. ft	Job Started	28 - Jul - 2012	15:05	CST
Water Depth	Wk Ht Above Floor	5. ft	Job Completed	28 - Jul - 2012	16:08	17:30	CST
Perforation Depth (MD)	From	To	Departed Loc	28 - Jul - 2012	17:30		CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Production Liner Open Hole				6.125				4660.	8871.	4280.	4280.
Intermediate Casing	Unknown		7.	6.366	23.		N-80	.	4660.	.	4280.
Production Liner	New		4.5	4.	11.6	Unknown		4460.	8871.	4280.	4280.
Drill Pipe	New		3.5	2.992	10.2	Unknown		.	4660.	.	.

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.0	bbl	8.33	.0	.0	.0	
2	EconoCem	ECONOCEM (TM) SYSTEM (452992)	315.0	sacks	13.6	1.53	7.41		7.41
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	2 %	BENTONITE, BULK (100003682)							
	7.41 Gal	FRESH WATER							
Calculated Values		Pressures			Volumes				
Displacement	107	Shut In: Instant		Lost Returns		Cement Slurry	86	Pad	
Top Of Cement	3677	5 Min		Cement Returns		Actual Displacement	107	Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	203
Rates									
Circulating	5	Mixing	5	Displacement	6	Avg. Job	5		
Cement Left In Pipe	Amount	85 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature <i>Randy McNeil</i>					

HALLIBURTON

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 340078	Ship To #: 2937798	Quote #:	Sales Order #: 9691466
Customer: ENCANA OIL & GAS (USA) INC. - EBUS		Customer Rep: Millins, Greg	
Well Name: Pabst Farm 3H	Well #: 2	API/UWI #: 15-135-25396	
Field:	City (SAP): NESS CITY	County/Parish: Ness	State: Kansas
Legal Description: Section 3 Township 18S Range 31W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: Precision	Rig/Platform Name/Num: 209		
Job Purpose: Cement Production Liner			Ticket Amount:
Well Type: Development Well	Job Type: Cement Production Liner		
Sales Person: DAIGLE, COLTER	Srv Supervisor: RODRIGUEZ, EDGAR	MBU ID Emp #: 442125	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/28/2012 00:00							DISPATCH CALLED CEMENT CREW OUT FOR JOB. ENCANA OIL & GAS PABST FARM 3H #2 4 1/2 PRODUCTION LINER CASING
Other	07/28/2012 00:30							LOAD EQUIPMENT
Depart Yard Safety Meeting	07/28/2012 00:50							DISCUSSED ALL ROUTES TO TAKE AND THE POSSIBLE HAZARDS ON THE ROAD. DISCUSSED ALL PLANNED STOPS.
Crew Leave Yard	07/28/2012 01:00							
Arrive At Loc	07/28/2012 03:20							
Assessment Of Location Safety Meeting	07/28/2012 03:25							RUNNING CASING. GOT NUMBERS FROM CUSTOMER REP. TP LINER= 4 1/2 #11.6 P-110 4321.84' DP=4" 14# 3332.15' HWDP=4" 28.6# 1070.5 OH= 6 1/8 @8725 SJ=85.56
Pre-Rig Up Safety Meeting	07/28/2012 04:00							
Rig-Up Equipment	07/28/2012 04:10							
Rig-Up Completed	07/28/2012 05:10							
Wait on Customer or Customer Sub-Contractor Equip	07/28/2012 05:15							RUNNING CASING

Sold To #: 340078

Ship To #: 2937798

Quote #:

Sales Order #: 9691466

SUMMIT Version: 7.3.0039

Saturday, July 28, 2012 05:02:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Wait on Customer or Customer Sub-Contractor Equip	07/28/2012 06:30							DONE RUNNING CASING. WILL RUN DRILL PIPE.
Other	07/28/2012 12:02							DRILL PIPE ON BOTTOM.
Rig-Up Equipment	07/28/2012 13:00							RIG UP IRON ON FLOOR. RIG IS PUMPING BALL DOWN. WILL TAKE OVER WHEN IT LANDS ON SEAT.
Pre-Job Safety Meeting	07/28/2012 14:50							DISCUSSED HAZARDS, JOB STEPS WITH ALL ON LOCATION. WENT OVER NUMBERS, PUMPING RATES, AND PRESSURES WITH CUSTOMER REP. HAD EVERYBODY INVOLVED SIGN HES SAFETY SHEET.
Start Job	07/28/2012 15:05							
Test Lines	07/28/2012 15:06						5000.0	PRESSURE TEST TO 5000 PSI.
Pump Ball	07/28/2012 15:08		1.5					PUMP TO SHEAR PLUG
Other	07/28/2012 15:11		1.5	3			3080.0	SHEARED PLUG @3080 PSI
Pump Spacer 1	07/28/2012 15:13		2	10			39.0	FRESH WATER
Pump Cement	07/28/2012 15:17		5	86			199.0	315 SKS ECONOCEM CMT @13.6 (86 BBLS)
Shutdown	07/28/2012 15:35							
Clean Lines	07/28/2012 15:35							
Drop Plug	07/28/2012 15:37							COMPETITION PLUG
Pump Displacement	07/28/2012 15:41		6	35	35		78.0	FRESH WATER
Slow Rate	07/28/2012 15:48		2	10	45		1859.0	TO LET PLUG PASS THROUGH TOOL. MAX PSI IT WENT UP TO WAS 1859
Pump Displacement	07/28/2012 15:51		6	42	87			

Sold To # : 340078

Ship To # : 2937798

Quote # :

Sales Order # : 9691466

SUMMIT Version: 7.3.0039

Saturday, July 28, 2012 05:02:00

HALLIBURTON

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	07/28/2012 16:02		2	10	97		1482. 0	SLOW TO 3 BPM TO BUMP PLUG
Bump Plug	07/28/2012 16:05		2	10	107		2520. 0	BUMP PLUG 1000 PSI OVER. FINAL PRESSURE WAS
Check Floats	07/28/2012 16:06							FLOATS HELD. 1 BBL BACK
End Job	07/28/2012 16:08							RIG WILL CIRCULATE CMT OUT
Pre-Rig Down Safety Meeting	07/28/2012 16:08							DISCUSSED ALL RED ZONES. PROPER LIFTING. SPOTTING EQUIPMENT OUT OF LOCATION
Rig-Down Equipment	07/28/2012 16:18							
Rig-Down Completed	07/28/2012 17:18							
Depart Location Safety Meeting	07/28/2012 17:18							DISCUSSED ALL ROUTES AND POTENTIAL HAZARDS ON THE WAY BACK TO THE YARD.
Crew Leave Location	07/28/2012 17:30							THANK YOU EDGAR A. RODRIGUEZ AND HALLIBURTON CREW.

Sold To #: 340078

Ship To #: 2937798

Quote #:

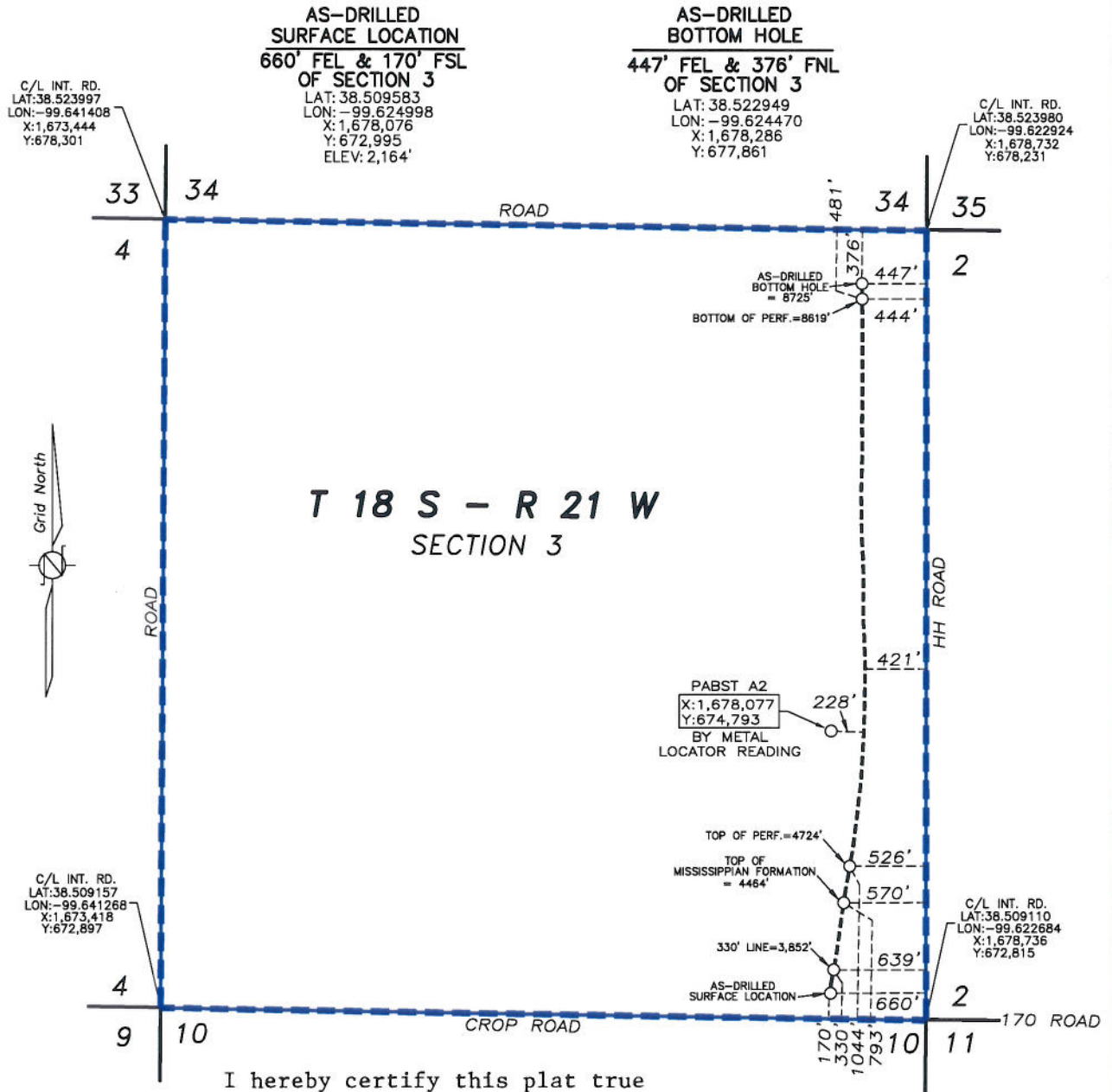
Sales Order #:

9691466

SUMMIT Version: 7.3.0039

Saturday, July 28, 2012 05:02:00

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. DISTANCES, COORDINATES AND BEARINGS SHOWN ARE NOT INTENDED TO BE DEFINITIVE IN ESTABLISHING ACTUAL TITLE BOUNDARIES. THIS DRAWING IS FOR CONSTRUCTION PURPOSES ONLY.
 All Bearings, Distances, and Coordinates shown hereon are based on the Kansas State Plane Coordinate System, N.A.D. 27 Datum, South Zone.



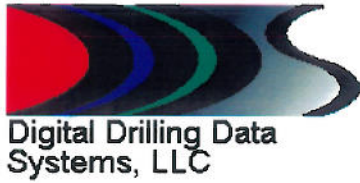
I hereby certify this plat true and correct to the best of my knowledge and belief.

Sharon Cook

Sharon Cook, Regulatory Adv **AS-DRILLED PLAT**
REVIEW COPY ENCANA OIL & GAS (USA) INC.
PABST FARM 3H-2
NESS COUNTY, KANSAS
SCALE: 1" = 1000'

--- = UNIT LINE

REV: 10-1-2012
 REV: 9-25-2012
 DATE: 7-31-2012



Survey Report

Company: Encana Oil & Gas

Location: Ness Co.

Well: Pabts Farm 3H-2

Rig: Precision 209

API or UWI: 15135253960000

Job Number: DR1207107

State: Kansas

Operator: Kenny Harris/S.Folmar

County: Ness

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 2.63

North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
63.60	0.50	187.04	63.60	-0.28	-0.03	187.04	0.28	-0.28	0.79
153.70	0.44	176.99	153.70	-1.01	-0.06	183.62	1.01	-1.01	0.11
243.80	0.25	164.15	243.79	-1.55	0.01	179.71	1.55	-1.54	0.23
333.90	0.10	146.53	333.89	-1.80	0.10	176.67	1.80	-1.79	0.17
424.00	0.56	118.42	423.99	-2.08	0.54	165.53	2.14	-2.05	0.53
514.10	0.55	84.17	514.09	-2.24	1.35	148.88	2.62	-2.18	0.36
604.20	0.94	56.91	604.18	-1.79	2.40	126.75	3.00	-1.68	0.57
694.30	0.88	21.43	694.27	-0.75	3.27	102.84	3.36	-0.60	0.62
784.40	0.51	356.66	784.36	0.30	3.50	85.13	3.52	0.46	0.52
874.50	0.60	347.70	874.46	1.16	3.38	71.06	3.57	1.31	0.14
964.60	1.10	335.31	964.55	2.41	2.92	50.49	3.78	2.54	0.59
1054.70	0.97	327.99	1054.64	3.84	2.15	29.28	4.40	3.93	0.21
1144.80	0.84	339.37	1144.72	5.10	1.52	16.54	5.32	5.17	0.25
1234.90	0.82	352.57	1234.81	6.36	1.20	10.68	6.47	6.41	0.21
1325.00	0.35	7.31	1324.91	7.27	1.15	8.99	7.36	7.32	0.54
1401.00	0.40	330.10	1400.91	7.73	1.05	7.72	7.80	7.77	0.32
1491.00	0.30	330.00	1490.91	8.21	0.77	5.39	8.25	8.24	0.11
1582.00	0.30	325.10	1581.91	8.61	0.52	3.45	8.63	8.63	0.03
1672.00	0.20	269.80	1671.90	8.80	0.23	1.48	8.81	8.81	0.28

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1763.00	0.10	273.70	1762.90	8.81	-0.01	359.93	8.81	8.80	0.11
1853.00	0.10	111.50	1852.90	8.79	-0.02	359.89	8.79	8.77	0.22
1944.00	0.10	14.10	1943.90	8.83	0.08	0.50	8.83	8.83	0.17
2034.00	0.30	256.60	2033.90	8.85	-0.13	359.14	8.86	8.84	0.40
2124.00	0.30	308.50	2123.90	8.95	-0.55	356.50	8.96	8.91	0.29
2215.00	0.30	321.80	2214.90	9.28	-0.88	354.58	9.32	9.23	0.08
2305.00	0.30	355.00	2304.90	9.70	-1.05	353.84	9.76	9.64	0.19
2396.00	0.40	357.50	2395.90	10.26	-1.08	353.98	10.31	10.20	0.11
2486.00	0.40	352.70	2485.90	10.88	-1.14	354.04	10.94	10.82	0.04
2576.00	0.60	351.20	2575.89	11.66	-1.25	353.89	11.73	11.59	0.22
2667.00	0.40	232.10	2666.89	11.94	-1.57	352.50	12.04	11.85	0.95
2757.00	0.50	338.60	2756.89	12.11	-1.96	350.80	12.27	12.01	0.80
2848.00	0.50	345.50	2847.89	12.86	-2.21	350.27	13.05	12.75	0.07
2938.00	0.50	355.80	2937.88	13.63	-2.33	350.29	13.83	13.51	0.10
3028.00	0.60	344.40	3027.88	14.48	-2.49	350.25	14.69	14.35	0.16
3119.00	0.50	335.50	3118.87	15.30	-2.78	349.70	15.55	15.16	0.14
3209.00	0.60	335.70	3208.87	16.09	-3.14	348.96	16.39	15.93	0.11
3300.00	0.50	333.10	3299.87	16.87	-3.51	348.24	17.24	16.70	0.11
3345.00	0.90	353.50	3344.86	17.40	-3.64	348.18	17.78	17.22	1.03
3375.00	2.20	5.00	3374.85	18.21	-3.62	348.76	18.56	18.02	4.43
3405.00	4.00	6.90	3404.81	19.82	-3.44	350.14	20.12	19.64	6.01
3435.00	5.60	9.30	3434.70	22.30	-3.08	352.13	22.52	22.14	5.37
3465.00	7.20	10.60	3464.51	25.60	-2.50	354.42	25.72	25.46	5.35
3481.00	8.20	10.60	3480.37	27.70	-2.10	355.66	27.78	27.58	6.25
3519.00	10.50	10.00	3517.86	33.78	-1.00	358.30	33.79	33.70	6.06
3564.00	14.20	8.70	3561.81	43.28	0.54	0.72	43.28	43.26	8.24
3609.00	18.00	7.90	3605.04	55.62	2.33	2.40	55.67	55.67	8.46
3655.00	20.50	8.90	3648.46	70.62	4.56	3.69	70.77	70.76	5.48
3700.00	23.70	9.80	3690.15	87.32	7.32	4.79	87.63	87.57	7.15
3745.00	27.00	10.90	3730.81	106.27	10.79	5.80	106.82	106.66	7.41
3790.00	29.80	10.20	3770.39	127.31	14.70	6.59	128.16	127.85	6.27
3835.00	33.00	10.10	3808.80	150.39	18.83	7.14	151.56	151.09	7.11
3881.00	36.80	10.20	3846.52	176.29	23.47	7.58	177.85	177.18	8.26
3926.00	40.30	10.40	3881.71	203.88	28.48	7.95	205.86	204.97	7.78
3971.00	43.80	10.20	3915.12	233.53	33.87	8.25	235.97	234.84	7.78

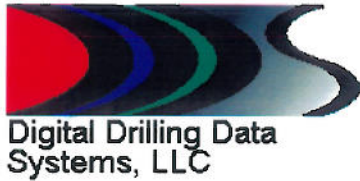
MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
4016.00	46.00	9.80	3946.99	264.81	39.38	8.46	267.72	266.34	4.93
4061.00	48.40	8.70	3977.56	297.39	44.69	8.55	300.73	299.13	5.63
4107.00	50.60	7.60	4007.44	332.02	49.64	8.50	335.71	333.94	5.12
4152.00	50.70	7.80	4035.97	366.50	54.30	8.43	370.50	368.61	0.41
4197.00	50.70	7.90	4064.47	401.00	59.06	8.38	405.32	403.28	0.17
4242.00	50.60	7.80	4093.00	435.47	63.81	8.34	440.12	437.94	0.28
4287.00	51.20	7.20	4121.38	470.09	68.37	8.27	475.04	472.73	1.69
4332.00	55.60	7.50	4148.21	505.91	72.99	8.21	511.15	508.73	9.79
4377.00	60.70	7.90	4171.95	543.78	78.11	8.17	549.36	546.79	11.36
4423.00	64.60	9.10	4193.08	584.18	84.16	8.20	590.21	587.42	8.79
4468.00	68.80	9.00	4210.87	624.98	90.66	8.25	631.53	628.49	9.34
4513.00	72.90	9.40	4225.63	666.94	97.45	8.31	674.02	670.71	9.15
4558.00	77.60	9.10	4237.08	709.88	104.45	8.37	717.52	713.92	10.46
4603.00	82.40	9.80	4244.90	753.58	111.72	8.43	761.82	757.91	10.78
4649.00	87.20	10.10	4249.06	798.69	119.64	8.52	807.60	803.34	10.45
4722.00	88.80	9.80	4251.61	870.54	132.24	8.64	880.53	875.69	2.23
4754.00	89.60	10.00	4252.06	902.06	137.74	8.68	912.52	907.43	2.58
4786.00	89.70	10.30	4252.25	933.56	143.38	8.73	944.51	939.16	0.99
4817.00	89.20	9.90	4252.55	964.08	148.82	8.78	975.50	969.89	2.07
4849.00	89.10	8.70	4253.03	995.66	153.99	8.79	1007.49	1001.67	3.76
4881.00	89.30	7.80	4253.47	1027.32	158.58	8.78	1039.49	1033.52	2.88
4912.00	89.20	7.40	4253.88	1058.05	162.68	8.74	1070.48	1064.40	1.33
4944.00	89.80	7.20	4254.16	1089.79	166.75	8.70	1102.47	1096.29	1.98
4976.00	90.00	6.50	4254.21	1121.56	170.56	8.65	1134.45	1128.20	2.28
5007.00	90.50	7.30	4254.08	1152.33	174.29	8.60	1165.44	1159.12	3.04
5039.00	91.00	6.80	4253.66	1184.09	178.21	8.56	1197.42	1191.02	2.21
5071.00	91.20	6.40	4253.04	1215.87	181.89	8.51	1229.40	1222.93	1.40
5102.00	91.00	6.80	4252.45	1246.66	185.45	8.46	1260.38	1253.85	1.44
5134.00	90.50	6.10	4252.03	1278.45	189.05	8.41	1292.35	1285.78	2.69
5165.00	90.20	6.20	4251.84	1309.27	192.37	8.36	1323.33	1316.72	1.02
5197.00	90.80	6.60	4251.56	1341.07	195.94	8.31	1355.31	1348.65	2.25
5228.00	91.60	7.00	4250.91	1371.85	199.61	8.28	1386.29	1379.56	2.89
5260.00	91.40	6.80	4250.07	1403.60	203.45	8.25	1418.27	1411.46	0.88
5292.00	90.10	6.60	4249.66	1435.38	207.18	8.21	1450.26	1443.38	4.11
5323.00	88.60	5.30	4250.01	1466.21	210.39	8.17	1481.23	1474.32	6.40

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5355.00	86.80	3.30	4251.29	1498.09	212.79	8.08	1513.13	1506.28	8.40
5387.00	87.10	3.00	4252.99	1530.00	214.55	7.98	1544.97	1538.23	1.32
5418.00	87.20	3.60	4254.54	1560.91	216.33	7.89	1575.83	1569.19	1.96
5450.00	87.50	3.90	4256.01	1592.81	218.42	7.81	1607.71	1601.15	1.33
5482.00	89.10	3.60	4256.96	1624.72	220.51	7.73	1639.62	1633.13	5.09
5513.00	91.00	3.30	4256.94	1655.67	222.38	7.65	1670.53	1664.13	6.20
5545.00	91.60	3.20	4256.21	1687.61	224.19	7.57	1702.43	1696.12	1.90
5576.00	92.50	3.00	4255.10	1718.54	225.87	7.49	1733.32	1727.09	2.97
5608.00	92.10	2.30	4253.82	1750.48	227.35	7.40	1765.18	1759.07	2.52
5640.00	91.60	1.80	4252.78	1782.44	228.49	7.30	1797.03	1791.05	2.21
5671.00	92.40	1.60	4251.70	1813.41	229.41	7.21	1827.86	1822.03	2.66
5703.00	91.10	1.80	4250.73	1845.38	230.36	7.12	1859.70	1854.01	4.11
5734.00	89.40	1.30	4250.59	1876.37	231.20	7.02	1890.56	1885.00	5.72
5766.00	89.50	1.50	4250.90	1908.36	231.98	6.93	1922.40	1916.99	0.70
5797.00	90.10	1.90	4251.01	1939.34	232.90	6.85	1953.28	1947.99	2.33
5829.00	90.00	1.50	4250.98	1971.33	233.85	6.77	1985.15	1979.98	1.29
5861.00	88.80	0.90	4251.31	2003.32	234.52	6.68	2017.00	2011.97	4.19
5892.00	89.10	0.70	4251.88	2034.31	234.95	6.59	2047.83	2042.95	1.16
5924.00	89.10	0.50	4252.38	2066.30	235.28	6.50	2079.66	2074.92	0.62
5955.00	88.80	0.50	4252.95	2097.30	235.56	6.41	2110.48	2105.90	0.97
5987.00	89.60	0.70	4253.40	2129.29	235.89	6.32	2142.32	2137.87	2.58
6019.00	89.10	1.00	4253.76	2161.29	236.36	6.24	2174.17	2169.86	1.82
6050.00	89.00	0.90	4254.27	2192.28	236.88	6.17	2205.04	2200.84	0.46
6082.00	88.40	359.80	4255.00	2224.27	237.07	6.08	2236.87	2232.81	3.91
6114.00	88.70	359.70	4255.81	2256.26	236.93	5.99	2268.67	2264.75	0.99
6145.00	88.30	358.80	4256.62	2287.25	236.53	5.90	2299.44	2295.69	3.18
6177.00	88.70	358.10	4257.46	2319.22	235.66	5.80	2331.17	2327.59	2.52
6208.00	89.10	357.70	4258.06	2350.20	234.53	5.70	2361.87	2358.48	1.82
6240.00	88.50	357.50	4258.73	2382.16	233.19	5.59	2393.55	2390.35	1.98
6272.00	89.00	357.50	4259.42	2414.12	231.79	5.48	2425.22	2422.22	1.56
6303.00	89.80	357.60	4259.75	2445.09	230.47	5.38	2455.93	2453.09	2.60
6335.00	90.50	357.50	4259.66	2477.06	229.10	5.28	2487.63	2484.97	2.21
6367.00	90.70	357.50	4259.33	2509.03	227.70	5.19	2519.34	2516.84	0.62
6398.00	92.00	357.70	4258.60	2539.99	226.41	5.09	2550.06	2547.71	4.24
6430.00	92.60	358.50	4257.31	2571.95	225.35	5.01	2581.80	2579.58	3.12

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
6462.00	93.30	358.80	4255.67	2603.90	224.59	4.93	2613.57	2611.46	2.38
6493.00	93.00	359.70	4253.96	2634.85	224.19	4.86	2644.37	2642.36	3.06
6525.00	92.00	0.80	4252.57	2666.82	224.33	4.81	2676.24	2674.30	4.64
6557.00	91.80	1.00	4251.51	2698.80	224.83	4.76	2708.14	2706.27	0.88
6588.00	92.00	0.50	4250.48	2729.78	225.24	4.72	2739.05	2737.24	1.74
6620.00	91.40	0.20	4249.53	2761.76	225.43	4.67	2770.95	2769.20	2.10
6632.00	91.40	359.90	4249.24	2773.76	225.44	4.65	2782.90	2781.18	2.50
6663.00	91.60	0.30	4248.43	2804.75	225.50	4.60	2813.80	2812.14	1.44
6695.00	92.10	0.00	4247.39	2836.73	225.58	4.55	2845.69	2844.09	1.82
6726.00	90.30	359.20	4246.74	2867.72	225.36	4.49	2876.56	2875.04	6.35
6758.00	87.90	357.50	4247.25	2899.70	224.44	4.43	2908.37	2906.94	9.19
6790.00	87.70	357.60	4248.47	2931.65	223.08	4.35	2940.12	2938.80	0.70
6821.00	88.60	357.80	4249.47	2962.61	221.83	4.28	2970.90	2969.66	2.97
6853.00	88.80	356.90	4250.20	2994.56	220.35	4.21	3002.66	3001.52	2.88
6884.00	89.30	356.60	4250.71	3025.51	218.60	4.13	3033.40	3032.35	1.88
6916.00	89.60	356.10	4251.02	3057.44	216.56	4.05	3065.10	3064.16	1.82
6947.00	89.40	356.30	4251.29	3088.37	214.50	3.97	3095.81	3094.96	0.91
6979.00	88.90	357.70	4251.77	3120.32	212.83	3.90	3127.57	3126.80	4.65
7011.00	88.70	358.60	4252.44	3152.30	211.80	3.84	3159.41	3158.70	2.88
7042.00	88.90	358.40	4253.09	3183.28	210.99	3.79	3190.27	3189.61	0.91
7074.00	88.80	358.60	4253.73	3215.27	210.15	3.74	3222.13	3221.52	0.70
7105.00	89.70	359.20	4254.13	3246.26	209.55	3.69	3253.01	3252.45	3.49
7137.00	89.80	0.40	4254.27	3278.26	209.44	3.66	3284.94	3284.41	3.76
7169.00	89.40	0.00	4254.50	3310.26	209.55	3.62	3316.88	3316.38	1.77
7200.00	88.90	359.50	4254.96	3341.25	209.42	3.59	3347.81	3347.34	2.28
7232.00	88.90	358.40	4255.57	3373.24	208.83	3.54	3379.70	3379.27	3.44
7264.00	89.30	359.60	4256.07	3405.23	208.27	3.50	3411.59	3411.20	3.95
7295.00	89.70	0.60	4256.35	3436.23	208.33	3.47	3442.54	3442.17	3.47
7327.00	90.50	1.20	4256.29	3468.22	208.83	3.45	3474.51	3474.15	3.12
7359.00	91.10	1.90	4255.84	3500.21	209.69	3.43	3506.48	3506.14	2.88
7390.00	91.20	2.00	4255.22	3531.18	210.75	3.42	3537.47	3537.14	0.46
7422.00	91.40	2.00	4254.49	3563.16	211.87	3.40	3569.45	3569.13	0.63
7454.00	92.40	1.70	4253.43	3595.12	212.90	3.39	3601.42	3601.10	3.26
7485.00	93.00	2.00	4251.97	3626.07	213.90	3.38	3632.38	3632.07	2.16
7517.00	91.10	0.70	4250.83	3658.04	214.65	3.36	3664.33	3664.04	7.19

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7549.00	90.70	0.40	4250.33	3690.03	214.96	3.33	3696.29	3696.01	1.56
7580.00	90.60	359.40	4249.97	3721.03	214.90	3.31	3727.23	3726.97	3.24
7612.00	90.00	359.40	4249.81	3753.03	214.57	3.27	3759.16	3758.92	1.87
7643.00	90.20	0.20	4249.75	3784.03	214.46	3.24	3790.10	3789.88	2.66
7675.00	90.80	359.30	4249.47	3816.03	214.32	3.21	3822.04	3821.84	3.38
7707.00	92.10	359.30	4248.66	3848.01	213.93	3.18	3853.96	3853.78	4.06
7739.00	91.70	0.10	4247.60	3880.00	213.76	3.15	3885.88	3885.72	2.79
7770.00	90.40	0.30	4247.04	3910.99	213.87	3.13	3916.83	3916.68	4.24
7802.00	89.00	0.20	4247.20	3942.99	214.01	3.11	3948.79	3948.65	4.39
7834.00	88.70	1.30	4247.84	3974.98	214.43	3.09	3980.76	3980.63	3.56
7865.00	88.60	0.80	4248.58	4005.96	215.00	3.07	4011.73	4011.61	1.64
7897.00	88.80	0.90	4249.30	4037.95	215.47	3.05	4043.70	4043.59	0.70
7928.00	89.10	0.00	4249.87	4068.95	215.72	3.03	4074.66	4074.56	3.06
7960.00	89.30	359.80	4250.32	4100.94	215.66	3.01	4106.61	4106.52	0.88
7991.00	89.30	0.40	4250.69	4131.94	215.71	2.99	4137.57	4137.49	1.94
8023.00	89.00	0.60	4251.17	4163.94	215.99	2.97	4169.53	4169.46	1.13
8054.00	88.70	359.90	4251.79	4194.93	216.13	2.95	4200.49	4200.43	2.46
8086.00	88.70	359.70	4252.52	4226.92	216.02	2.93	4232.44	4232.38	0.62
8118.00	89.40	359.10	4253.05	4258.91	215.68	2.90	4264.37	4264.32	2.88
8149.00	90.10	359.90	4253.18	4289.91	215.41	2.87	4295.32	4295.28	3.43
8181.00	89.40	0.20	4253.32	4321.91	215.44	2.85	4327.28	4327.24	2.38
8213.00	88.10	0.30	4254.02	4353.90	215.58	2.83	4359.24	4359.21	4.07
8244.00	88.20	359.90	4255.02	4384.89	215.63	2.82	4390.19	4390.16	1.33
8276.00	88.20	0.30	4256.03	4416.87	215.69	2.80	4422.13	4422.11	1.25
8308.00	89.20	0.00	4256.75	4448.86	215.77	2.78	4454.09	4454.08	3.26
8339.00	90.10	0.10	4256.94	4479.86	215.80	2.76	4485.06	4485.04	2.92
8371.00	89.60	359.60	4257.03	4511.86	215.72	2.74	4517.01	4517.01	2.21
8402.00	88.70	359.90	4257.49	4542.86	215.58	2.72	4547.97	4547.96	3.06
8434.00	88.90	359.20	4258.16	4574.85	215.33	2.69	4579.91	4579.91	2.27
8466.00	88.70	359.50	4258.83	4606.84	214.97	2.67	4611.85	4611.85	1.13
8497.00	88.60	359.40	4259.56	4637.83	214.67	2.65	4642.79	4642.79	0.46
8529.00	88.70	358.90	4260.31	4669.82	214.19	2.63	4674.73	4674.73	1.59
8561.00	88.60	359.10	4261.07	4701.80	213.64	2.60	4706.65	4706.65	0.70
8592.00	87.20	358.40	4262.20	4732.77	212.96	2.58	4737.56	4737.56	5.05
8624.00	87.30	358.80	4263.74	4764.73	212.18	2.55	4769.45	4769.44	1.29

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8656.00	89.30	359.20	4264.69	4796.71	211.62	2.53	4801.37	4801.36	6.37
8677.00	89.20	358.70	4264.96	4817.70	211.24	2.51	4822.33	4822.32	2.43
8725.00	89.20	358.70	4265.63	4865.68	210.15	2.47	4870.22	4870.20	0.00



Survey Report

Company: Encana Oil & Gas

Location: Ness Co.

Well: Pabts Farm 3H-2

Rig: Precision 209

API or UWI: 15135253960000

Job Number: DR1207107

State: Kansas

Operator: Kenny Harris/S.Folmar

County: Ness

Magnetic Declination: 0.00

Comment

Proposed Azimuth: 2.63

North Reference: GRID

Tiein Survey Data:

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
63.60	0.50	187.04	63.60	-0.28	-0.03	187.04	0.28	-0.28	0.79
153.70	0.44	176.99	153.70	-1.01	-0.06	183.62	1.01	-1.01	0.11
243.80	0.25	164.15	243.79	-1.55	0.01	179.71	1.55	-1.54	0.23
333.90	0.10	146.53	333.89	-1.80	0.10	176.67	1.80	-1.79	0.17
424.00	0.56	118.42	423.99	-2.08	0.54	165.53	2.14	-2.05	0.53
514.10	0.55	84.17	514.09	-2.24	1.35	148.88	2.62	-2.18	0.36
604.20	0.94	56.91	604.18	-1.79	2.40	126.75	3.00	-1.68	0.57
694.30	0.88	21.43	694.27	-0.75	3.27	102.84	3.36	-0.60	0.62
784.40	0.51	356.66	784.36	0.30	3.50	85.13	3.52	0.46	0.52
874.50	0.60	347.70	874.46	1.16	3.38	71.06	3.57	1.31	0.14
964.60	1.10	335.31	964.55	2.41	2.92	50.49	3.78	2.54	0.59
1054.70	0.97	327.99	1054.64	3.84	2.15	29.28	4.40	3.93	0.21
1144.80	0.84	339.37	1144.72	5.10	1.52	16.54	5.32	5.17	0.25
1234.90	0.82	352.57	1234.81	6.36	1.20	10.68	6.47	6.41	0.21
1325.00	0.35	7.31	1324.91	7.27	1.15	8.99	7.36	7.32	0.54
1401.00	0.40	330.10	1400.91	7.73	1.05	7.72	7.80	7.77	0.32
1491.00	0.30	330.00	1490.91	8.21	0.77	5.39	8.25	8.24	0.11
1582.00	0.30	325.10	1581.91	8.61	0.52	3.45	8.63	8.63	0.03
1672.00	0.20	269.80	1671.90	8.80	0.23	1.48	8.81	8.81	0.28

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1763.00	0.10	273.70	1762.90	8.81	-0.01	359.93	8.81	8.80	0.11
1853.00	0.10	111.50	1852.90	8.79	-0.02	359.89	8.79	8.77	0.22
1944.00	0.10	14.10	1943.90	8.83	0.08	0.50	8.83	8.83	0.17
2034.00	0.30	256.60	2033.90	8.85	-0.13	359.14	8.86	8.84	0.40
2124.00	0.30	308.50	2123.90	8.95	-0.55	356.50	8.96	8.91	0.29
2215.00	0.30	321.80	2214.90	9.28	-0.88	354.58	9.32	9.23	0.08
2305.00	0.30	355.00	2304.90	9.70	-1.05	353.84	9.76	9.64	0.19
2396.00	0.40	357.50	2395.90	10.26	-1.08	353.98	10.31	10.20	0.11
2486.00	0.40	352.70	2485.90	10.88	-1.14	354.04	10.94	10.82	0.04
2576.00	0.60	351.20	2575.89	11.66	-1.25	353.89	11.73	11.59	0.22
2667.00	0.40	232.10	2666.89	11.94	-1.57	352.50	12.04	11.85	0.95
2757.00	0.50	338.60	2756.89	12.11	-1.96	350.80	12.27	12.01	0.80
2848.00	0.50	345.50	2847.89	12.86	-2.21	350.27	13.05	12.75	0.07
2938.00	0.50	355.80	2937.88	13.63	-2.33	350.29	13.83	13.51	0.10
3028.00	0.60	344.40	3027.88	14.48	-2.49	350.25	14.69	14.35	0.16
3119.00	0.50	335.50	3118.87	15.30	-2.78	349.70	15.55	15.16	0.14
3209.00	0.60	335.70	3208.87	16.09	-3.14	348.96	16.39	15.93	0.11
3300.00	0.50	333.10	3299.87	16.87	-3.51	348.24	17.24	16.70	0.11
3345.00	0.90	353.50	3344.86	17.40	-3.64	348.18	17.78	17.22	1.03
3375.00	2.20	5.00	3374.85	18.21	-3.62	348.76	18.56	18.02	4.43
3405.00	4.00	6.90	3404.81	19.82	-3.44	350.14	20.12	19.64	6.01
3435.00	5.60	9.30	3434.70	22.30	-3.08	352.13	22.52	22.14	5.37
3465.00	7.20	10.60	3464.51	25.60	-2.50	354.42	25.72	25.46	5.35
3481.00	8.20	10.60	3480.37	27.70	-2.10	355.66	27.78	27.58	6.25
3519.00	10.50	10.00	3517.86	33.78	-1.00	358.30	33.79	33.70	6.06
3564.00	14.20	8.70	3561.81	43.28	0.54	0.72	43.28	43.26	8.24
3609.00	18.00	7.90	3605.04	55.62	2.33	2.40	55.67	55.67	8.46
3655.00	20.50	8.90	3648.46	70.62	4.56	3.69	70.77	70.76	5.48
3700.00	23.70	9.80	3690.15	87.32	7.32	4.79	87.63	87.57	7.15
3745.00	27.00	10.90	3730.81	106.27	10.79	5.80	106.82	106.66	7.41
3790.00	29.80	10.20	3770.39	127.31	14.70	6.59	128.16	127.85	6.27
3835.00	33.00	10.10	3808.80	150.39	18.83	7.14	151.56	151.09	7.11
3881.00	36.80	10.20	3846.52	176.29	23.47	7.58	177.85	177.18	8.26
3926.00	40.30	10.40	3881.71	203.88	28.48	7.95	205.86	204.97	7.78
3971.00	43.80	10.20	3915.12	233.53	33.87	8.25	235.97	234.84	7.78

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
4016.00	46.00	9.80	3946.99	264.81	39.38	8.46	267.72	266.34	4.93
4061.00	48.40	8.70	3977.56	297.39	44.69	8.55	300.73	299.13	5.63
4107.00	50.60	7.60	4007.44	332.02	49.64	8.50	335.71	333.94	5.12
4152.00	50.70	7.80	4035.97	366.50	54.30	8.43	370.50	368.61	0.41
4197.00	50.70	7.90	4064.47	401.00	59.06	8.38	405.32	403.28	0.17
4242.00	50.60	7.80	4093.00	435.47	63.81	8.34	440.12	437.94	0.28
4287.00	51.20	7.20	4121.38	470.09	68.37	8.27	475.04	472.73	1.69
4332.00	55.60	7.50	4148.21	505.91	72.99	8.21	511.15	508.73	9.79
4377.00	60.70	7.90	4171.95	543.78	78.11	8.17	549.36	546.79	11.36
4423.00	64.60	9.10	4193.08	584.18	84.16	8.20	590.21	587.42	8.79
4468.00	68.80	9.00	4210.87	624.98	90.66	8.25	631.53	628.49	9.34
4513.00	72.90	9.40	4225.63	666.94	97.45	8.31	674.02	670.71	9.15
4558.00	77.60	9.10	4237.08	709.88	104.45	8.37	717.52	713.92	10.46
4603.00	82.40	9.80	4244.90	753.58	111.72	8.43	761.82	757.91	10.78
4649.00	87.20	10.10	4249.06	798.69	119.64	8.52	807.60	803.34	10.45
4722.00	88.80	9.80	4251.61	870.54	132.24	8.64	880.53	875.69	2.23
4754.00	89.60	10.00	4252.06	902.06	137.74	8.68	912.52	907.43	2.58
4786.00	89.70	10.30	4252.25	933.56	143.38	8.73	944.51	939.16	0.99
4817.00	89.20	9.90	4252.55	964.08	148.82	8.78	975.50	969.89	2.07
4849.00	89.10	8.70	4253.03	995.66	153.99	8.79	1007.49	1001.67	3.76
4881.00	89.30	7.80	4253.47	1027.32	158.58	8.78	1039.49	1033.52	2.88
4912.00	89.20	7.40	4253.88	1058.05	162.68	8.74	1070.48	1064.40	1.33
4944.00	89.80	7.20	4254.16	1089.79	166.75	8.70	1102.47	1096.29	1.98
4976.00	90.00	6.50	4254.21	1121.56	170.56	8.65	1134.45	1128.20	2.28
5007.00	90.50	7.30	4254.08	1152.33	174.29	8.60	1165.44	1159.12	3.04
5039.00	91.00	6.80	4253.66	1184.09	178.21	8.56	1197.42	1191.02	2.21
5071.00	91.20	6.40	4253.04	1215.87	181.89	8.51	1229.40	1222.93	1.40
5102.00	91.00	6.80	4252.45	1246.66	185.45	8.46	1260.38	1253.85	1.44
5134.00	90.50	6.10	4252.03	1278.45	189.05	8.41	1292.35	1285.78	2.69
5165.00	90.20	6.20	4251.84	1309.27	192.37	8.36	1323.33	1316.72	1.02
5197.00	90.80	6.60	4251.56	1341.07	195.94	8.31	1355.31	1348.65	2.25
5228.00	91.60	7.00	4250.91	1371.85	199.61	8.28	1386.29	1379.56	2.89
5260.00	91.40	6.80	4250.07	1403.60	203.45	8.25	1418.27	1411.46	0.88
5292.00	90.10	6.60	4249.66	1435.38	207.18	8.21	1450.26	1443.38	4.11
5323.00	88.60	5.30	4250.01	1466.21	210.39	8.17	1481.23	1474.32	6.40

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5355.00	86.80	3.30	4251.29	1498.09	212.79	8.08	1513.13	1506.28	8.40
5387.00	87.10	3.00	4252.99	1530.00	214.55	7.98	1544.97	1538.23	1.32
5418.00	87.20	3.60	4254.54	1560.91	216.33	7.89	1575.83	1569.19	1.96
5450.00	87.50	3.90	4256.01	1592.81	218.42	7.81	1607.71	1601.15	1.33
5482.00	89.10	3.60	4256.96	1624.72	220.51	7.73	1639.62	1633.13	5.09
5513.00	91.00	3.30	4256.94	1655.67	222.38	7.65	1670.53	1664.13	6.20
5545.00	91.60	3.20	4256.21	1687.61	224.19	7.57	1702.43	1696.12	1.90
5576.00	92.50	3.00	4255.10	1718.54	225.87	7.49	1733.32	1727.09	2.97
5608.00	92.10	2.30	4253.82	1750.48	227.35	7.40	1765.18	1759.07	2.52
5640.00	91.60	1.80	4252.78	1782.44	228.49	7.30	1797.03	1791.05	2.21
5671.00	92.40	1.60	4251.70	1813.41	229.41	7.21	1827.86	1822.03	2.66
5703.00	91.10	1.80	4250.73	1845.38	230.36	7.12	1859.70	1854.01	4.11
5734.00	89.40	1.30	4250.59	1876.37	231.20	7.02	1890.56	1885.00	5.72
5766.00	89.50	1.50	4250.90	1908.36	231.98	6.93	1922.40	1916.99	0.70
5797.00	90.10	1.90	4251.01	1939.34	232.90	6.85	1953.28	1947.99	2.33
5829.00	90.00	1.50	4250.98	1971.33	233.85	6.77	1985.15	1979.98	1.29
5861.00	88.80	0.90	4251.31	2003.32	234.52	6.68	2017.00	2011.97	4.19
5892.00	89.10	0.70	4251.88	2034.31	234.95	6.59	2047.83	2042.95	1.16
5924.00	89.10	0.50	4252.38	2066.30	235.28	6.50	2079.66	2074.92	0.62
5955.00	88.80	0.50	4252.95	2097.30	235.56	6.41	2110.48	2105.90	0.97
5987.00	89.60	0.70	4253.40	2129.29	235.89	6.32	2142.32	2137.87	2.58
6019.00	89.10	1.00	4253.76	2161.29	236.36	6.24	2174.17	2169.86	1.82
6050.00	89.00	0.90	4254.27	2192.28	236.88	6.17	2205.04	2200.84	0.46
6082.00	88.40	359.80	4255.00	2224.27	237.07	6.08	2236.87	2232.81	3.91
6114.00	88.70	359.70	4255.81	2256.26	236.93	5.99	2268.67	2264.75	0.99
6145.00	88.30	358.80	4256.62	2287.25	236.53	5.90	2299.44	2295.69	3.18
6177.00	88.70	358.10	4257.46	2319.22	235.66	5.80	2331.17	2327.59	2.52
6208.00	89.10	357.70	4258.06	2350.20	234.53	5.70	2361.87	2358.48	1.82
6240.00	88.50	357.50	4258.73	2382.16	233.19	5.59	2393.55	2390.35	1.98
6272.00	89.00	357.50	4259.42	2414.12	231.79	5.48	2425.22	2422.22	1.56
6303.00	89.80	357.60	4259.75	2445.09	230.47	5.38	2455.93	2453.09	2.60
6335.00	90.50	357.50	4259.66	2477.06	229.10	5.28	2487.63	2484.97	2.21
6367.00	90.70	357.50	4259.33	2509.03	227.70	5.19	2519.34	2516.84	0.62
6398.00	92.00	357.70	4258.60	2539.99	226.41	5.09	2550.06	2547.71	4.24
6430.00	92.60	358.50	4257.31	2571.95	225.35	5.01	2581.80	2579.58	3.12

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
6462.00	93.30	358.80	4255.67	2603.90	224.59	4.93	2613.57	2611.46	2.38
6493.00	93.00	359.70	4253.96	2634.85	224.19	4.86	2644.37	2642.36	3.06
6525.00	92.00	0.80	4252.57	2666.82	224.33	4.81	2676.24	2674.30	4.64
6557.00	91.80	1.00	4251.51	2698.80	224.83	4.76	2708.14	2706.27	0.88
6588.00	92.00	0.50	4250.48	2729.78	225.24	4.72	2739.05	2737.24	1.74
6620.00	91.40	0.20	4249.53	2761.76	225.43	4.67	2770.95	2769.20	2.10
6632.00	91.40	359.90	4249.24	2773.76	225.44	4.65	2782.90	2781.18	2.50
6663.00	91.60	0.30	4248.43	2804.75	225.50	4.60	2813.80	2812.14	1.44
6695.00	92.10	0.00	4247.39	2836.73	225.58	4.55	2845.69	2844.09	1.82
6726.00	90.30	359.20	4246.74	2867.72	225.36	4.49	2876.56	2875.04	6.35
6758.00	87.90	357.50	4247.25	2899.70	224.44	4.43	2908.37	2906.94	9.19
6790.00	87.70	357.60	4248.47	2931.65	223.08	4.35	2940.12	2938.80	0.70
6821.00	88.60	357.80	4249.47	2962.61	221.83	4.28	2970.90	2969.66	2.97
6853.00	88.80	356.90	4250.20	2994.56	220.35	4.21	3002.66	3001.52	2.88
6884.00	89.30	356.60	4250.71	3025.51	218.60	4.13	3033.40	3032.35	1.88
6916.00	89.60	356.10	4251.02	3057.44	216.56	4.05	3065.10	3064.16	1.82
6947.00	89.40	356.30	4251.29	3088.37	214.50	3.97	3095.81	3094.96	0.91
6979.00	88.90	357.70	4251.77	3120.32	212.83	3.90	3127.57	3126.80	4.65
7011.00	88.70	358.60	4252.44	3152.30	211.80	3.84	3159.41	3158.70	2.88
7042.00	88.90	358.40	4253.09	3183.28	210.99	3.79	3190.27	3189.61	0.91
7074.00	88.80	358.60	4253.73	3215.27	210.15	3.74	3222.13	3221.52	0.70
7105.00	89.70	359.20	4254.13	3246.26	209.55	3.69	3253.01	3252.45	3.49
7137.00	89.80	0.40	4254.27	3278.26	209.44	3.66	3284.94	3284.41	3.76
7169.00	89.40	0.00	4254.50	3310.26	209.55	3.62	3316.88	3316.38	1.77
7200.00	88.90	359.50	4254.96	3341.25	209.42	3.59	3347.81	3347.34	2.28
7232.00	88.90	358.40	4255.57	3373.24	208.83	3.54	3379.70	3379.27	3.44
7264.00	89.30	359.60	4256.07	3405.23	208.27	3.50	3411.59	3411.20	3.95
7295.00	89.70	0.60	4256.35	3436.23	208.33	3.47	3442.54	3442.17	3.47
7327.00	90.50	1.20	4256.29	3468.22	208.83	3.45	3474.51	3474.15	3.12
7359.00	91.10	1.90	4255.84	3500.21	209.69	3.43	3506.48	3506.14	2.88
7390.00	91.20	2.00	4255.22	3531.18	210.75	3.42	3537.47	3537.14	0.46
7422.00	91.40	2.00	4254.49	3563.16	211.87	3.40	3569.45	3569.13	0.63
7454.00	92.40	1.70	4253.43	3595.12	212.90	3.39	3601.42	3601.10	3.26
7485.00	93.00	2.00	4251.97	3626.07	213.90	3.38	3632.38	3632.07	2.16
7517.00	91.10	0.70	4250.83	3658.04	214.65	3.36	3664.33	3664.04	7.19

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7549.00	90.70	0.40	4250.33	3690.03	214.96	3.33	3696.29	3696.01	1.56
7580.00	90.60	359.40	4249.97	3721.03	214.90	3.31	3727.23	3726.97	3.24
7612.00	90.00	359.40	4249.81	3753.03	214.57	3.27	3759.16	3758.92	1.87
7643.00	90.20	0.20	4249.75	3784.03	214.46	3.24	3790.10	3789.88	2.66
7675.00	90.80	359.30	4249.47	3816.03	214.32	3.21	3822.04	3821.84	3.38
7707.00	92.10	359.30	4248.66	3848.01	213.93	3.18	3853.96	3853.78	4.06
7739.00	91.70	0.10	4247.60	3880.00	213.76	3.15	3885.88	3885.72	2.79
7770.00	90.40	0.30	4247.04	3910.99	213.87	3.13	3916.83	3916.68	4.24
7802.00	89.00	0.20	4247.20	3942.99	214.01	3.11	3948.79	3948.65	4.39
7834.00	88.70	1.30	4247.84	3974.98	214.43	3.09	3980.76	3980.63	3.56
7865.00	88.60	0.80	4248.58	4005.96	215.00	3.07	4011.73	4011.61	1.64
7897.00	88.80	0.90	4249.30	4037.95	215.47	3.05	4043.70	4043.59	0.70
7928.00	89.10	0.00	4249.87	4068.95	215.72	3.03	4074.66	4074.56	3.06
7960.00	89.30	359.80	4250.32	4100.94	215.66	3.01	4106.61	4106.52	0.88
7991.00	89.30	0.40	4250.69	4131.94	215.71	2.99	4137.57	4137.49	1.94
8023.00	89.00	0.60	4251.17	4163.94	215.99	2.97	4169.53	4169.46	1.13
8054.00	88.70	359.90	4251.79	4194.93	216.13	2.95	4200.49	4200.43	2.46
8086.00	88.70	359.70	4252.52	4226.92	216.02	2.93	4232.44	4232.38	0.62
8118.00	89.40	359.10	4253.05	4258.91	215.68	2.90	4264.37	4264.32	2.88
8149.00	90.10	359.90	4253.18	4289.91	215.41	2.87	4295.32	4295.28	3.43
8181.00	89.40	0.20	4253.32	4321.91	215.44	2.85	4327.28	4327.24	2.38
8213.00	88.10	0.30	4254.02	4353.90	215.58	2.83	4359.24	4359.21	4.07
8244.00	88.20	359.90	4255.02	4384.89	215.63	2.82	4390.19	4390.16	1.33
8276.00	88.20	0.30	4256.03	4416.87	215.69	2.80	4422.13	4422.11	1.25
8308.00	89.20	0.00	4256.75	4448.86	215.77	2.78	4454.09	4454.08	3.26
8339.00	90.10	0.10	4256.94	4479.86	215.80	2.76	4485.06	4485.04	2.92
8371.00	89.60	359.60	4257.03	4511.86	215.72	2.74	4517.01	4517.01	2.21
8402.00	88.70	359.90	4257.49	4542.86	215.58	2.72	4547.97	4547.96	3.06
8434.00	88.90	359.20	4258.16	4574.85	215.33	2.69	4579.91	4579.91	2.27
8466.00	88.70	359.50	4258.83	4606.84	214.97	2.67	4611.85	4611.85	1.13
8497.00	88.60	359.40	4259.56	4637.83	214.67	2.65	4642.79	4642.79	0.46
8529.00	88.70	358.90	4260.31	4669.82	214.19	2.63	4674.73	4674.73	1.59
8561.00	88.60	359.10	4261.07	4701.80	213.64	2.60	4706.65	4706.65	0.70
8592.00	87.20	358.40	4262.20	4732.77	212.96	2.58	4737.56	4737.56	5.05
8624.00	87.30	358.80	4263.74	4764.73	212.18	2.55	4769.45	4769.44	1.29

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8656.00	89.30	359.20	4264.69	4796.71	211.62	2.53	4801.37	4801.36	6.37
8677.00	89.20	358.70	4264.96	4817.70	211.24	2.51	4822.33	4822.32	2.43
8725.00	89.20	358.70	4265.63	4865.68	210.15	2.47	4870.22	4870.20	0.00

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 29, 2012

Sharon Cook
EnCana Oil & Gas (USA) Inc.
5851 LEGACY CIRCLE
PLANO, TX 75024

Re: ACO1
API 15-135-25396-01-00
PABST FARM 3H 2
SE/4 Sec.03-18S-21W
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Sharon Cook