# District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

☐ AMENDED REPORT

ALLI	ACAII		R PERMIT	and Addre	ess	27.11.271.9			6137		) Number	
		Devo	n Energy Produc 20 N. Bro	tion Comp adway	oany, L.P.					API	Number	<u> </u>
3 Prope	erty Code		Oklahoma City	y, OK /310	<sup>3</sup> Property	Name			30-04	7, 2,	Al Well	No.
1100	19641				Northeast Bl					}	347	
	19041	<del></del>	Proposed Pool 1		Northeast Di	anco omi			10 Prop	osed Pool		141
			Basin Dakota						Blanco	Mesaverd	e	
					<sup>7</sup> Surface	Location	<u> </u>		<u> </u>			
L or lot no.	1 1 1		_	Lot		1	orth/South li	ne	Feet from the	East/W	i	County
E	36	31N	8W			125	North		780	W	est	San Juan
			<sup>8</sup> Propo	sed Botte	om Hole Loca				urface			
JL or lot no	Section	Township	Range	Lot l	Idn Feet fi	om the No	orth/South li	ne	Feet from the	East/W	est line	County
	L		<u> </u>	Δ.	lditional W	ell Inform	ation	1_				
11 Work	Type Code		12 Well Type Co			e/Rotary		<sup>14</sup> I	ease Type Code	<del>- 1</del> -	15 Grour	nd Level Elevation
	N		G			otary	1		State		(	6,434'
<sup>16</sup> N	ultiple		17 Proposed Dep	th		mation			<sup>19</sup> Contractor			Spud Date
epth to Grou	Y undwater >	100'	8,071'	Distance	Dakota/Ne from nearest fre	Mesaverde			Dictance from	nearest s	Unknown nearest surface water >1,000'	
				1		<u> </u>					surface wa	
<u>it:</u> Liner	Synthetic		mils thick Clay	Pit V	olume:bb	ls	Drilling					
Close	d-Loop Sys	tem 🗌							Brine Die	sel/Oil-ba	sed 🗌 (	Gas/Air 🛛
			21	Propos	sed Casing a	and Ceme	nt Prog	gram	1			
Hole S	ize	Ca	sing Size		g weight/foot		ng Depth		Sacks of Ce	ment	1	Estimated TOC
12 ½	′,,,		5/8"	32#		0-2	0-285'		200		Surface	
8 3/4			7"		23#		-3.545' 5		575			Surface
6 1/4		4	4 1/2"	1	1.6#	0-TD			700			Surface
											1	·
						<u> </u>					<u> </u>	
			If this application ogram, if anv. Use				e data on ti	he pre	sent productive zo	one and p	roposed n	ew productive zo
ocserioe the	olowout piv	vention pre	gram, n any. Os	c additiona	i shoots it hoods	···· <i>J</i> .				5.ALIS	ern al	= 100
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			n given above is t irther certify tha				OII	<u>CC</u>	NSERVAT	ION D	IVISIO	ON
onstructed a	ccording t	o NMOCD	guidelines 🔯, a			Approved b	y.		<b>7</b> .			
n (attached) معرف	alternativ	e_OCD-app	roved plan 🔲.				0	4	$Y_{-1}$			
ign:	5//~								my-			
rinted name:	Melisa Ca	stro				Title: PEPH	ITY OD A	2 <b>6</b> 4	S INSPECTOR	MET T	<u>.)</u>	·
itle: Senior:	Staff Operat	tions Techn	ıcian			Approval D		26	2008 Ex	piration		3 2 6 ZUII
mail Addres	s Melisa.c	astro@dvn	.com		70							
	21-08		Phone: 405-5	52-7017		Conditions of	of Approve	al Atto	ched			
								44 /AII/4				

District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

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

#### OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies
RCVD\_FEB 25 '08

AMENDED REPORT

	WEL!	L LO	CATION	AND AC	REAGE DEDIC	ATION	PLAT OIL C	ONS.	DIV.
'API Numbe	r		<sup>2</sup> Pool Code	´	_		10011441110 82		
30.045.31	4606	715	99/72	319 /	Basin Dakota	-/ 13li	ines Me		
Property Code 19441	NE	BU		<sup>5</sup> Prope	ity Name				* Well Number # 347M
, OGRID No.	De	von E	Energy P	•	Company, L.P	•	ļ	•	Elevation 6434
				10 Surface	Location				
UL or Lot No Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from	the East/West	line	County
E 36	31 N	8 W		2425	NORTH	780	WE	ST	SAN JUAN
	11	Bott	om Hole	Location I	f Different Fron	n Surfac	e		
<sup>7</sup> UL or lot no. Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from	the East/Wes	l line	County
Dedicated Acres " Join W/2 320	nt or Infill 14 Con	nsolidatio	n Code 15 (	Order No.	<u> </u>				
NO ALLOWABLE	WILL BE AS:	SIGNE	D TO THI	S COMPLET	ION UNTIL ALL I	NTEREST	S HAVE BEI	EN CO	NSOLIDATED
_	OR A NO	TR-NC	ANDARD	UNIT HAS I	BEEN APPROVED	BY THE	DIVISION		
780' — ©			3.6	,		Sign Sign Sign Sign Sign Sign Sign Sign	agture Casted Name  LICAL CAST  LOCAL CAST	The solution of the solution o	Surveyor

2624'(R) (R) - BLM Record Certificate Number

District I
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 200

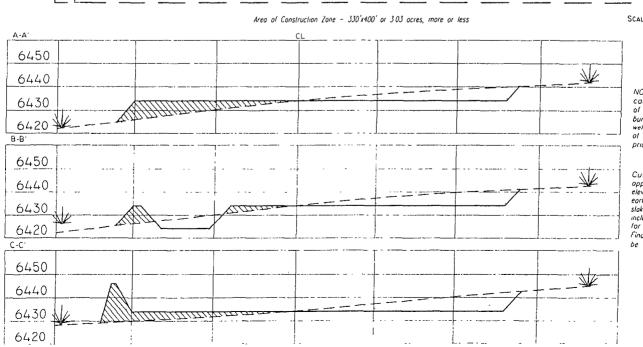
Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade ta Type of action Registration of a pit	nk covered by a "general plan"? Yes []? or below-grade tank [ Closure of a pit or below-	No [
Operator:Devon Energy Production Company, L.P Telepho Address:20 N. Broadway, Oklahoma City, OK 73102	one:(405) 552-7917e-mail address:	melisa.castro@dvn.com
Facility or well name: NEBU 347M API #:	30.045-34 606 U/L or Qtr/Qtr	E Sec 36 T 31N R 8W
County: San Juan Latit	`	
Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐		
Pit	Below-grade tank	
Type. Drilling Production Disposal	Volumebbl Type of fluid:	OIL CONS. DIV.
Workover ☐ Emergency ☐	Construction material:	- RICT -
Lined Unlined	Construction material:  Double-walled, with leak detection? Yes   If	not, explain why not.
Liner type: Synthetic Thickness 12_mil Clay		······································
Pit Volumebbl	3	
Death to the state of the state	Less than 50 feet	(20 points)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water.)	√ 100 feet or more	( 0 points)
W.W. alaka in a constant	Yes	(20 points)
Wellhead protection area: (Less than 200 feet from a private domestic	√ No	( 0 points).
water source, or less than 1000 feet from all other water sources.)		
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	( 0 points)
	Ranking Score (Total Points)	10 pts
If this is a pit closure: (1) Attach a diagram of the faculity showing the pit	's relationship to other equipment and tanks. (2) Inc	dicate disposal location: (check the onsite box if
your are burying in place) onsite [ ] If offsite, name of facility_		
remediation start date and end date. (4) Groundwater encountered: No		
(5) Attach soil sample results and a diagram of sample locations and excava		
Additional Comments:	ANOTO	
Additional Comments.		<del></del>
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline.		
Date 2-21-08	/	
	Simon Services	
Printed Name/Title Melisa Castro, Senior Staff Operations Technician	SignatureSignature	
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve regulations.		
Approval: Deputy Oil & Gas Inspector Printed Name/Fitle District #3	r,	
	Signature	

### PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P.

Nebu # 347M 2425' F/NL 780' F/WL SEC. 36, T31N, R8W, N.M.P.M.

Lat: 36.85494° (83) Long: 107.63319° SAN JUAN COUNTY, NEW MEXICO В C (3) F ⑥ *F* 8' F 8' 35 PROPOSED FLARE PIT PROPOSED 20' 100 RESERVE PIT 8 /// 130' /// Mud Tanks 4 ELEV. | 6434 CO N 70° E 150' Draw Works Motors LAYDOWN 330' 130, Proposed Access Road (3) (6) @C8 150 150 В, Existing Field Rood NOTES Reserve Pit Dike - Should be 8' above Deep side (overflow - 3' wide & 1' above shallow side)
Flare Pit - Overflow pipe should be halfway between lop and bottom and extend over plastic liner and into flare pit 400'-CONSTRUCTION ZONE



SCALE 1"=60'-HORIZ. 1"=40'-VERT

NOTE Contractor should coll One-Coll for location of any marked or unmarked buried pipelines or cables on well pod and/or access road of least lwo (2) working days prior to construction

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Carner slokes are approximate and do not include additional areas needed for sidestopes and drainages final Pad Dimensions are to be verified by Contractor.

VANN SURVEYS P. O. Box 1306 Farmington, NM

#### NEBU 347M SL: 2,425' FNL & 780' FWL, Unit E 36-31N-8W BHL: Same San Juan Co., NM

#### **DRILLING PLAN**

## 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS & ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Formation	TMD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	
Ojo Alamo	2226	Aquifer
Kirtland	2323	
Fruitland	2864	Gas
Fruitland 1 <sup>st</sup> Coal	3071	Gas
Pictured Cliffs Main	3323	Gas
Lewis	3444	Gas
Intermediate TD	3545	
Huefanito Bentonite	4057	Gas
Chacra / Otera	4421	Gas
Cliff House	5220	Gas
Menefee	5305	Gas
Point Lookout	5556	Gas
Mancos	5980	Gas
Gallup	6916	Gas
Greenhorn	7616	
Graneros	7679	Gas
Paguate	7820	
Cubero	7831	
Oak Canyon	7898	
Encinal Canyon	7916	

Lower Encinal Canyon	7972	·
Burro Canyon	7991	
Morrison	8011	
TD	8071	

<sup>\*</sup>All shows of fresh water and minerals will be adequately protected and reported.

#### 2. PRESSURE CONTROL EQUIPMENT:

All well control equipment shall be in accordance with Onshore Order #1 for 2M systems.

The minimum specifications for pressure control equipment that will be provided are included on the attached schematic diagram, with a size of 2", and pressure ratings.

• 2000# BOP With Pipe Rams and 2000# BOP With Blind Rams

Auxiliary equipment to be used:

• Upper kelly cock with handle available.

The manifold includes appropriate valves and adjustable chokes. The kill line will have one check valve. Ram type preventers will be pressure tested to full working pressure (utilizing a test plug) or 70% of the internal yield pressure (without a test plug) at:

- Initial installation
- Whenever any seal subject to test pressure is broken
- Following related repairs
- · At 30 day intervals

Pipe and blind rams shall be activated each trip.

A BOPE pit level drill will be conducted weekly for each drilling crew. All tests and drills will be recorded in the drilling log.

The accumulator will have sufficient capacity to close all rams and retain 200 psi above precharge pressure without the use of closing unit pumps.

Master controls will be at the accumulator. Anticipated bottom hole pressure is 3400 psi.

#### 3. Casing & Cementing Program:

A. The proposed casing program will be as follows:

TMD	Hole Size	Size	Grade	Weight	Thread	Condition
0-285'	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3545	8-3/4"	7"	K-55	23#	LTC	New

0- TD	6-1/4"	4-1/2"	J-55	11.6#	LTC	New

Casing Size	Collapse Resistance	Internal Yield	Body Yield		
9 5/8"	1400 psi	2270 psi	254K psi		
7"	3270 psi	4360 psi	366K psi		
4 1/2"	4960 psi	5350 psi	184K psi		

The 9-5/8" surface pipe will be tested to 750 psi. All casing strings below the surface shoe shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% minimum internal yield.

<u>Surface</u>: The bottom three joints of the surface casing will have a minimum of one centralizer per joint and one centralizer every joint thereafter (Total 5 centralizers estimated)

<u>Intermediate</u>: The bottom three joints of the 7" casing will have a minimum of one centralizer per joint and one centralizer every fifth joint thereafter to above Ojo Alamo with turbolizers below and throughout the Ojo Alamo. (Total 12 centralizers, 3 turbolizers estimated). In some situations an ACP and DV tool may be run.

<u>Production</u>: The bottom three joints will have a minimum of one centralizer per joint and one centralizer every fifth joint to 3500' (estimated 25 centralizers used). Centralizers will be open bow spring or basket bow spring type. In some situations an ACP and DV tool may be run.

#### B. The proposed cementing program will be as follows:

#### **Surface String:**

Cement will be circulated to surface.

**Lead:** 200 sx Class "B" with 100% Standard Cement, 2.00% CaCl2, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx;

Water: 5.24 gal/sx

\* Minor variations possible due to existing conditions

#### Intermediate String:

Cement will be circulated to surface.

**Lead:** 500 sx 50/50 Poz, Yd-1.45, Water Gal/sx 6.8, Mixed @ 13ppg Foamed W/ N2 Down To 9.0# Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

Tail: 75 sx 50/50 Poz, Yd-1.45, Water Gal/Sk 6.8, Additives 2% Gel, 0.2% Versaset, 0.1% Diacel Lwl.

\* Minor variations possible due to existing conditions

If hole conditions dictate, an alternate, cement design will be used:

**Lead:** 575 sx 50/50 Poz with 50% Class B Cement, 50% San Juan Poz, .4% Halad-344, .1% CFR-3, 3% Bentonite, 5#/sx Gilsonite, .25#/sx Flocele. Density: 13.0 lb/gal; Yield: 1.46 cuft/sx; Water: 6.42 gal/sx

Tail: 75 sx 50/50 Poz with 94#/sx Standard Cement, 0.3%

Halad-344, .25 #/sx Flocele. Density: 15.6 lb/gal; Yield: 1.18 cuft/sx; Water: 5.23 gal/sx

\* Minor variations possible due to existing conditions

#### **Production String:**

TOC designed to circulate 1000' into intermediate string, cement will tie into the intermediate casing as a minimum. Volumes may vary with actual well characteristics.

**Lead:** 250 sx 50/50 Poz with 2% Gel, 0.2% Halad, 0.1% CFR-3, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Mixed at 13 ppg, 1.47 ft 3/sx foamed to 9 ppg, 2.18 ft 3/sx.

Tail: 450 sx 50/50 Poz with 50% Standard Cement, 50% San Juan Poz, 3% Bentonite, 1.40% Halad-9, .10% CFR-3, .10% HR-5, 5 #/sx Gilsonite, 0.25 #/sx Flocele. Density: 13.0 lb/gal; Yield: 1.47 cuft/sx; Water: 6.35 gal/sx \*

\* Minor variations possible due to existing conditions

Actual volumes will be calculated and adjusted with caliper log prior to cementing.

#### 4. DRILLING FLUIDS PROGRAM:

TMD Interval	Type	Weight (ppg)	Viscosity	рН	Water Loss	Remarks
0-285'	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
285'-3,545'	Water/ Mud	8.4-9.0	29-70	8.0	NC	
3,545' - TD	Air/N2 or Mud	8.5-9.0*	30-50	8.0-10.0	8-810cc @ TD	Low solids- non-dispersed. * min Wt. to control formation pressure

NC = no control

Sufficient quantities of mud material will be maintained on site or be readily accessible for the purpose of assuring well control. SPR will be recorded on daily drilling report after mudding up. Visual mud monitoring will be conducted during operations.

#### 5. EVALUATION PROGRAM:

Logs: Density

Neutron Induction

In the event open hole logs are not run in the well, a cased hole evaluation log will Be run.

Survey: Deviation surveys will be taken every 500' from 0-TD or first succeeding bit

change. The hole will be air drilled from intermediate casing point to TD. The

equipment used in this type of operation will not allow for single shot surveys without considerable operational delays therefore a survey will be taken at TD. Similar wells in this area have not shown significant deviation in this section of the hole.

Cores: None anticipated.

**DST's:** None anticipated.

#### 6. ABNORMAL CONDITIONS:

The Fruitland Coal will be encountered in the 8-3/4" hole. Estimated formation pressure is 300 psi. No other abnormal pressures and/or temperatures are expected. No hydrogen sulfide should be present.

#### 7. OTHER INFORMATION:

The anticipated starting date and duration of the operation will be as follows:

Starting Date:

**Upon Approval** 

Duration:

20 days

If the well is completed as a dry hole or as a producer, Well Completion or Recompletion Report and Log (Form 3160-4) will be submitted within 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3160. Copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, daily drilling reports, daily completion reports, and all other surveys or data obtained and compiled during the drilling, completion, and/or workover operations, will be submitted directly to the Authorized Officer or filed with Form 3160-4.

## Well Control Equipment 2,000 psi Configuration

