1220 S St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

May 27, 2004 Submit to appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

Form C-101

APPL	<u> JCATI</u>	ON FOR	PERMIT	TO D	KILL,	<u>, RE-EN</u>	TER, D	<u>EEPEN</u>	<u>, PLUGBA</u>	ACK,	<u>UK AD</u>	D A ZONE	
	Operator Name and Address  Devon Energy Production Company, L.P.  20 N. Broadway								6137		RID Numbe	er	
			20 N. Broa Oklahoma City	adway					30 - ()	AF' الات ما تكار	I Number		
³ Prope	rty Code			, 011 /010		Property Nar	ne		130-0	$\frac{1}{1}$		II No.	
	19641				North	neast Blanco	Unit				35	4E	
		9 P	roposed Pool 1						10 Pro	posed Po	ool 2		
		H	Basın Dakota				_						
Surfa							ocation						
UL or lot no							he North/S	outh line	Feet from the	East/	West line	County	
G	G 32 31N 7W							orth	1,905		East	San Juan	
	_		<sup>8</sup> Propo	sed Botte	om Hole	e Location	n If Differer	nt From S	urface				
UL or lot no	Section	Township	Range	Lot I	ldn	Feet from t	he North/S	outh line	Feet from the	East/	West line	County	
	L			A 1	1.1141	-1 337-11	T C			, I			
11 3374-1	Type Code	<del></del>	12 Well Type Coo		lattion	al Well  13 Cable/Ro	Informati		ease Type Code		15.0	und Level Elevation	
	N Code		G G	ie		Rotary	-		State		Groi	6,388'	
<sup>16</sup> M	lultiple		17 Proposed Dept	h		18 Formati	ол		19 Contractor	+		<sup>20</sup> Spud Date	
	N		8,115'			Dako						Unknown	
Depth to Grou	ındwater >	100'		Distance	e from ne	arest fresh v	vater well >1,0	000'	Distance fr	om neares	st surface w	vater >1,000'	
Pit: Liner:	Synthetic		ls thick Clay	Pit V	olume:	bbls	Di	rillıng Meth	od:				
Close	d-Loop Sys	stem 🗍	-				Fr	esh Water	Brine 🔲 I	Diesel/Oil-	-based	Gas/Aır ⊠	
			21	Propos	ed Ca	sing and							
** * * *							and Cement Program				Т		
Hole S			ng Size	Casing weight/foot		loot	Setting Depth		Sacks of Cement			Estimated TOC	
12.1/			5/8"		32#		0-285'		200		Surface		
8 3/4			7"		23#		<u> </u>		<u>57</u>		Surface		
6.1/4		4	1/2''		1.6#		0-TI	)	70	( <u>)                                    </u>		2.677'	
	-												
22 Describe th	he proposed	d program If	this application	is to DEEI	PEN or P	LUG BACI	C, give the dat	a on the pre	esent productive	zone and	l proposed	new productive zone.	
Describe the	blowout pr	evention progr	ram, if any Use	additiona	ıl sheets i	f necessary.		•	•			•	
												AY 9 '08	
				•							OIL CO	NS. DIV.	
											OIS	iT. 3	
							21071	-1.// ^				i	
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							PRIOR	TO	CASIN	⊋ <i>Q.</i> (		CAIT	
										A CE		CIAI	
23 I haraby oar	etify that th	aunformation	given above is t	mia and aa	mulata ta	tha							
								OIL CO	<u>ONSERVA</u>	TION	<u>DIVIS</u>	ION	
best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines ⊠, a general permit □, or						pproved by:							
an (attached) alternative OCD-approved plan .								1	LA 1	1			
Sign:							1	MM	_				
Printed name Melisa Castro									AS INSPECT				
Title Senior Staff Operations Technician						A	pproval Date	MAY 1	2 2008	Expiration	on Date M	AY 1 2 2010	
E-mail Address: Melisa.castro@dvn.com													
Date. 5	-4-0	8	Phone: 405-5	52-7917		C	onditions of A	pproval Att	ached				
			6 A	AV 4 4		M	/ <del>B</del>						
	MAY 1 2 2008 # D												

District I PO Box 1980, Hobbs NM 88241-1980 District II

PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Biazos Rd, Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088

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

AMENDED REPORT

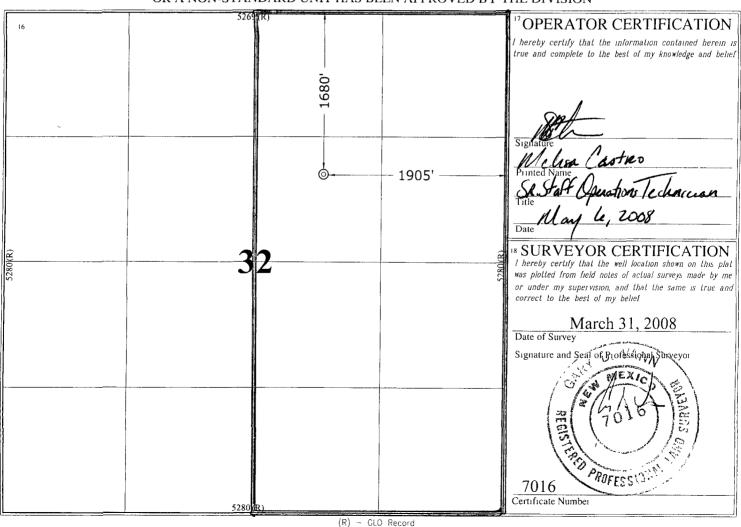
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		<sup>2</sup> Pool Code	¹ Pool	Name
30.045.34	7.00	71599	Basin Dakota	
Property Code			5 Property Name	6 Well Number
19641	NEF	BU		# 354E
OGRID No	*		* Operator Name	<sup>9</sup> Elevation
6/37 Devon Energy Producti			uction Company, L.P.	6388
		10 S	urface Location	

Surface Location

UL or Lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	32	31 N	7 W		1680	NORTH	1905	EAST	SAN JUAN
			" Bott	om Hole	Location If	Different Fron	n Surface		
<sup>7</sup> UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre		t or Infill	Consolidatio	n Code 15 0	Order No				
12319.67									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 R10 Brazos R0ad, Aztec, NM 87410
District IV
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.

For appro For a office

For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office.

Form C-144

June 1, 2004

Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes \ No \ \

Type of action: Registration of a pit of	or below-grade tank \(\sigma\) Closure of a pit or below-gr	ade tank			
Operator Devon Energy Production Company, L.PTelephor	ne (405) 552-7917 e-mail address r	melisa castro@dvn.com			
A 11 A 21					
Facility or well name. NEBU 354E API#					
County San Juan Latitud					
Surface Owner. Federal  State Private Indian					
Pit	Below-grade tank				
Type: Drilling 🛛 Production 🗌 Disposal 🗍	Volumebbl Type of fluid:				
Workover ☐ Emergency ☐	Construction material:				
Lined 🛮 Unlined 🔲	Double-walled, with leak detection? Yes  If no	J			
Liner type Synthetic Thickness 12_mil Clay					
Pit Volumebbl					
	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. III. 1 - 200 G G	Yes	(20 points)			
Wellhead protection area (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	√ No	( 0 points)			
water source, or less than 1000 feet from an other water sources y	Less than 200 feet	(20 points)			
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)			
irrigation canals, ditches, and perennial and ephemeral watercourses)	√ 1000 feet or more	(10 points)			
		( o points)			
·	Ranking Score (Total Points)				
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's	s relationship to other equipment and tanks. (2) India	cate disposal location. (check the onsite box if			
your are burying in place) onsite 🔲 offsite 🔲 If offsite, name of facility_	(3) Attach a general	description of remedial action taken including			
remediation start date and end date (4) Groundwater encountered. No 🔲 Y	Yes If yes, show depth below ground surface	ft. and attach sample results.			
(5) Attach soil sample results and a diagram of sample locations and excavat		-			
Additional Comments		SCAD WAA a JOR			
		OIL CONS. DIV.			
		nct 2			
		<u> </u>			
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: 5-6-08					
Printed Name/TitleMelisa Castro, Senior Staff Operations Technician_	Signature				
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve the regulations.					
Approval. Deputy Oil & Gas Inspect Printed Name/Title District #3	or, Signature	Date MAY 1 2 2008			

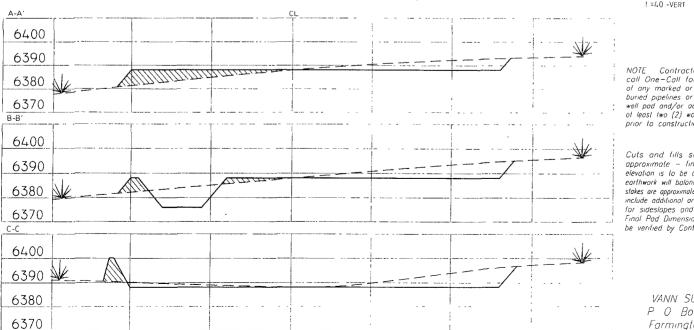
#### PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P. Nebu #354E

1680' F/NL 1905' F/EL SEC. 32, T31N, R7W, N.M.P.M.

Lat:

36.85869° (83) 107.59189° (83) Long: SAN JUAN COUNTY, NEW MEXICO В C Α ⑤ F (6) (2) F 6 PROPOSED PROPOSED FLARE PIT 20 09 RESERVE PIT 00 Mud Tanks (4) C 0' ELEV. 6388 72° W Draw Works Motors 150 LAYDOWN 330' 130 130 230' @ C'8' ③ C 5' 150 Existing Pipeline В Existing Field Road Reserve Ptt Dike - Should be 8' above Deep side (overflow - 3' wide & 1' above shallow side)

Flare Ptt - Overflow pipe should be halfway between lop and bottom- and extend-over plastic liner and inta libre pit NOTES 400' CONSTRUCTION ZONE SCALE 1'=60 -HORIZ 1 =40 -VERT Area of Construction Zone - 330'x400' or 3.03 acres, more or less



NOTE Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road of least two (2) working days prior to construction

Cuts and fills shown are approximate — final finished elevation is to be adjusted so earthwork will balance. Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages Final Pod Dimensions are to be verified by Contractor

> VANN SURVEYS P 0 Box 1306 Farmington, NM

# NEBU 354E SL: 1,680' FNL & 1,905' FEL, Unit G 32-31N-7W 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	2288	Aquifer
Kirtland	2424	
Fruitland	2898	Gas
Pictured Cliffs Tongue	3293	Gas
Pictured Cliffs Main	3383	Gas
Lewis	3496	Gas
Intermediate TD	3677	
Huefanito Bentonite	4080	Gas
Chacra / Otera	4600	Gas
Cliff House	5315	Gas
Menefee	5388	Gas
Point Lookout	5614	Gas
Mancos	6017	Gas
Gallup	6977	Gas
Greenhorn	7667	
Graneros	7723	Gas
Paguate	7864	
Cubero	7874	
Oak Canyon	7938	
Encinal Canyon	7955	

Lower Encinal Canyon	8020	
Burro Canyon	8033	
Morrison	8055	
TD	8115	

<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 #2 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.
- Safety valve & subs to fit all drill string connections in use.

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
0-3677	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	Туре	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'-3,677'	Water/ Mud	8.4-9.0	29-70	8.0	NC	
3,677' - 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:

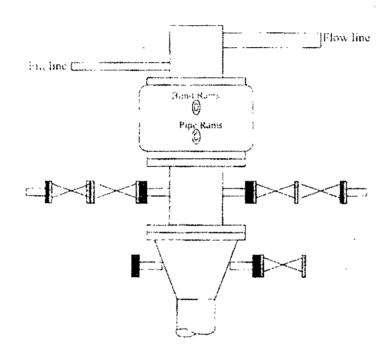
Upon Approval

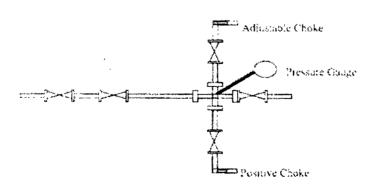
Duration:

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





All well control equipment designed to meet or exceed the Onshore Oil and Gas Order No. 2, BLM 43 CFR. 3160 requirements for 2M systems.