- 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
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☐ AMENDED REPORT

APPI	ICATI	(ON)	FOF	R PERMIT	TO D	RILL, RE-	ENTER, D	EEPEN	N, PLUGBAC	CK, OR	ADI	D A ZONE
	Operator Name and Address Devon Energy Production Company, L.P. 20 N. Broadway								6137	² OGRID N	Number	
				20 N. Broa Oklahoma City	adwav	-			30 - 045	`API Nu	mber	
³ Prope	erty Code		T			⁵ Property 1						No.
	19641					Northeast Bla	nco Unit		10 -	L	354	4
⁹ Proposed Pool I Basın Dakota									™ Propo	osed Pool 2		
				Dillin Diagn		⁷ Surface	Location	-				
UL or lot no	Section	Town	, ,	Range	Lot I	Idn Feet fro	om the North/	South line	Feet from the	East/West	line	County
J	32	311	N	7W	<u> </u>	1,69		outh	1,790	East		San Juan
UL or lot no	Section	Town	bun	° Propo	sed Botto	om Hole Locat		nt From S	Surface Feet from the	East/West	·	Country
OL OF IOUR	Section	TOWN	ջյուհ	Range	1.00.1	di recino)m tile i i i i i i i i i i i i i i i i i i	Souui inie	reet Hom the	Easi/ West	line	County
11 ***						lditional We					16	
	Type Code N			Well Type Coo		Rot	e/Rotary tary	14	Lease Type Code State		(nd Level Elevation 6,318'
	lultiple N			¹⁷ Proposed Dept 7,970'	th	1	mation Kota		19 Contractor			O Spud Date Unknown
Depth to Grou	ındwater >	·100'			Distanc	te from nearest fres		000'	Distance from	nearest sur	face wa	ter >1,000°
<u>Pit</u> Liner	· Synthetic	\boxtimes	_12_m	nils thick Clay	Pit V	olumebbls	s E	Inlling Metl	<u> </u>			
Close	ed-Loop Sys	stem [<u></u>				E	resh Water	☑ Brine ☐ Die	sel/Oil-base	<u>d □ (</u>	Gas/Air 🛛
				21	Propos	sed Casing a	nd Cement	Progran	n			
Hole S	ıze		Cası	ıng Size	Casing	g weight/foot	Setting Depth		Sacks of Cer	ment	J	Estimated TOC
12 ½		↓		5/8"		32#	0-28		200		Surface	
8 3/4		\vdash		7"		23#		0-3-497' 575				Surface
6 1/4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\vdash	4	. 1/2"		11.6#	0-T1)	700	$\overline{}$		Surface
,		\vdash	—							$\overline{}$		
22 Describe tl	he proposed	d progra	am, If	f this application	ıs to DEE!	PEN or PLUG BA	ACK, give the da	ta on the pr	esent productive zo	ne and proj	posed n	new productive zone.
Describe the	blowout pr	eventio	n prog	gram, if any Use	additiona :	al sheets if necessa	ary.					
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²³ l hereby cer	rtify that th	e inforr	nation	n given above is t	rue and co	mplete to the		OILC	ONSERVAT	ION DI	VISI	ON
				rther certify tha guidelines ⊠, a			Amerovad by:	OIL C		1011 101	V 101	014
				guidennes ⊠, a roved plan □.	general p	ermit [], or	Approved by	/	1	7		
Sign [.]							1		1/	\sim		
Printed name:	: Melisa C	astro					Title					
Title Senior	Staff Opera	ations T	`echni	.cian			Approval Date	MAR S	2 2009 E	xpiration Da	ate: MA	NR 2 4 2010
E-mail Addre	ss Melisa	castro@	<u>@</u> dvn (com								
Date: 3-/3-08 Phone 405-552-7917				Conditions of A	Approval At	tached						

District I¹
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

Dedicated Acres

- 320

Joint or Infill

Consolidation Code

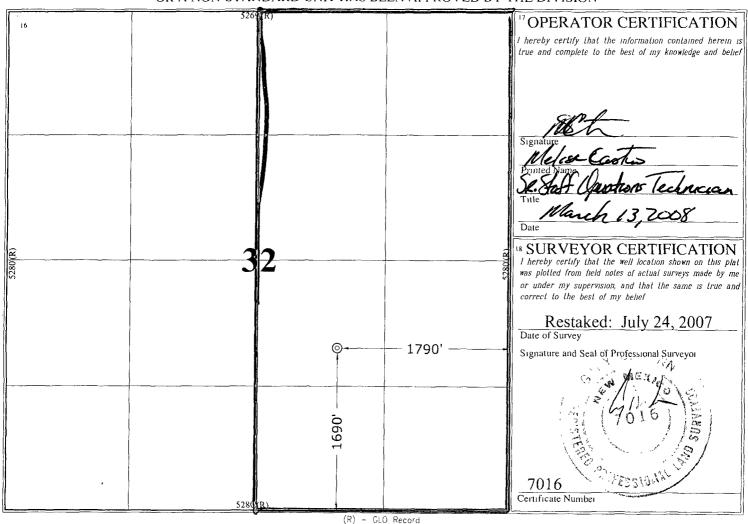
State of New Mexico
Energy, Minerals & Natural Resources Department

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

		WE	LL LO	CATION	AND ACR	EAGE DEDIC	ATION PLA	Υ Τ			
	API Number	***************************************		¹ Pool Code		' Pool Name					
30-04	5-3	1658	7	1599	Ž.	Besin Dar	tota				
4 Property					5 Property	Name			6 Well Number		
1960	11	N	EBU						# 354		
, OGRID	No				* Operator	Name			Elevation		
6137	7	D	evon E	Energy P	roduction (Company, L.P).		6318		
					¹⁰ Surface L	Location					
UL or Lot No	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County		
J 32 31 N 7 W 1690 SOUTH 1790 EA							EAST	SAN JUAN			
	***************************************		" Bott	om Hole	Location If	Different From	n Surface				
⁷ UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		

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 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

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.

Pit or Below-Grade Tank Registration or Closure

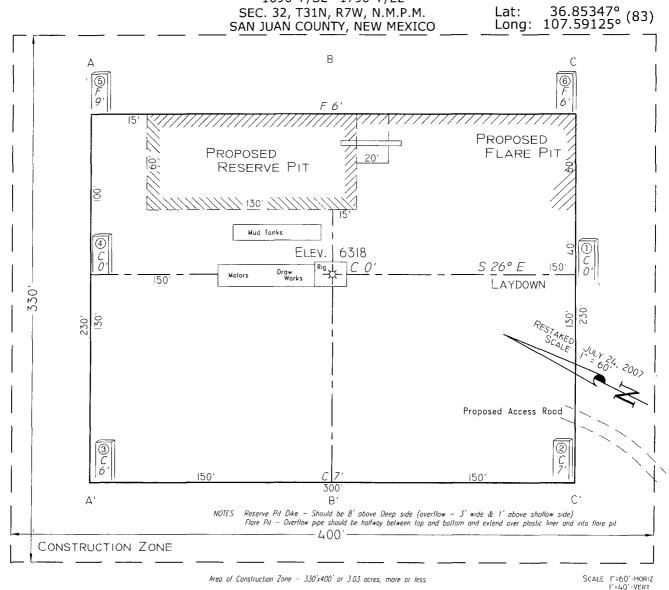
Is pit or below-grade tank covered by a "general plan"? Yes \Boxed No \Boxed Type of action Registration of a pit or below-grade tank 🛛 Closure of a pit or below-grade tank 🔲 Telephone: (405) 552-7917 e-mail address melisa.castro@dvn.com___ Operator: Devon Energy Production Company, L.P. Address 20 N. Broadway, Oklahoma City, OK 73102 Facility or well name. ____NEBU 354_____API#: 30.045.34658 U/L or Qtr/Qtr__J__Sec__32__T_31N___R_7W__ Latitude 36.85347 Longitude -107.59125 NAD. 1927 ☐ 1983 ☐ County San Juan Surface Owner: Federal ☐ State ☒ Private ☐ Indian ☐ Pit Below-grade tank Type: Drilling ☑ Production ☐ Disposal ☐ Volume: ____bbl Type of fluid _____ Construction material Lined Unlined Double-walled, with leak detection? Yes If not, explain why not Liner type: Synthetic ☑ Thickness _12_mil Clay ☐ Pit Volume ___ bbl 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) 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) 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 (0 points) Ranking Score (Total Points) If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location (check the onsite box if your are burying in place) onsite offsite for lf offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered. No 🗌 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 excavations. Additional Comments: I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines \(\subseteq \), a general permit \(\subseteq \), or an (attached) alternative OCD-approved plan \(\subseteq \). Date: 3-13-08 Printed Name/Title Melisa Castro, Senior Staff Operations Technician Signature Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. Approval. Printed Name/Title _____

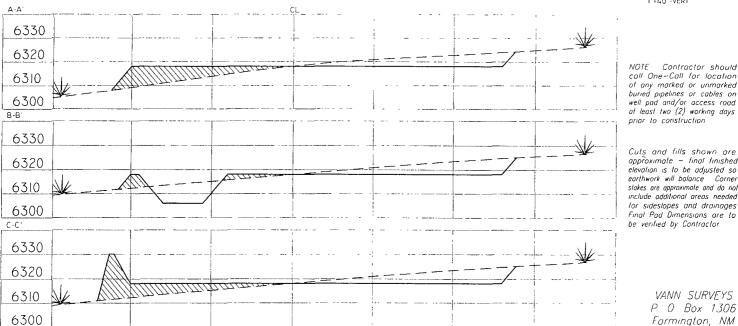
Form C-144 June 1, 2004

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

Nebu #354 1690' F/SL 1790' F/EL SEC. 32, T31N, R7W, N.M.P.M.

Lat:





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

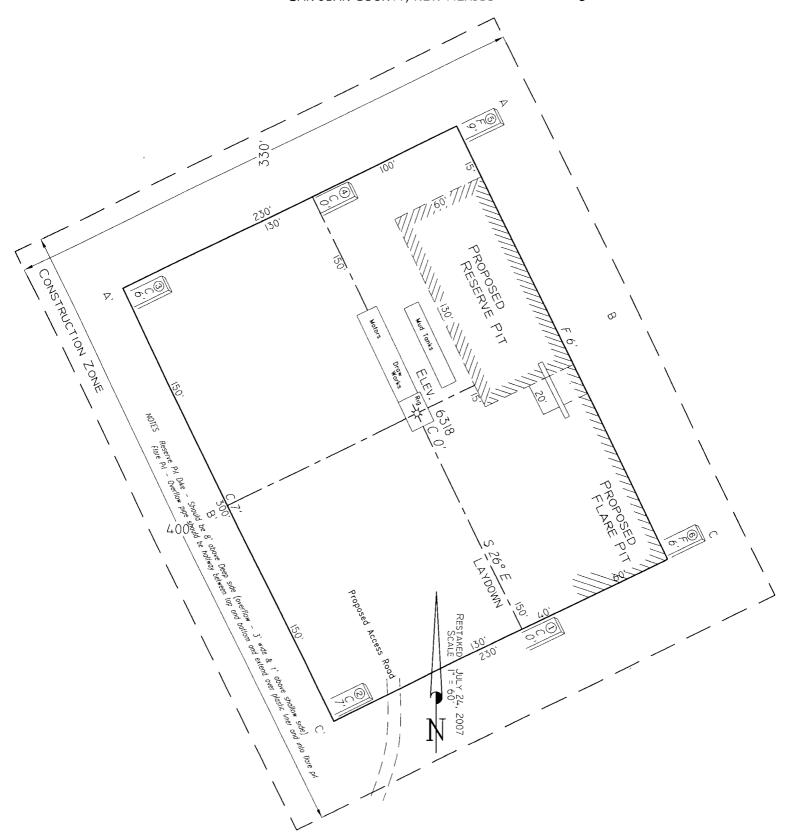
Cuts and fills shown are approximate – final finished elevation is to be adjusted so earthwork will balance Corner stakes are approximate and do not include additional areas needed for sideslopes and drainages Final Pad Dimensions are to be verified by Contractor

> VANN SURVEYS P 0 Box 1306 Farmington, NM

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

1690' F/SL 1790' F/EL SEC. 32, T31N, R7W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat: 36.85347° (83) Long: 107.59125° (83)



NEBU 354 SL: 1,690' FSL & 1,790' FEL, Unit J 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	2152	Aquifer
Kirtland	2264	
Fruitland	2741	Gas
Fruitland 1 st Coal	2910	Gas
Pictured Cliffs Tongue	3136	Gas
Pictured Cliffs Main	3226	Gas
Lewis	3362	Gas
Intermediate TD	3497	
Huefanito Bentonite	3953	Gas
Chacra / Otera	4454	Gas
Cliff House	5114	Gas
Menefee	5200	Gas
Point Lookout	5450	Gas
Mancos	5860	Gas
Gallup	6825	Gas
Greenhorn	7522	
Graneros	7583	Gas
Paguate	7714	
Cubero	7727	
Oak Canyon	7798	

Encinal Canyon	7814	
Burro Canyon	7895	
Morrison	7910	
TD	7970	

^{*}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	TVD	Hole Size	Size	Grade .	Weight	Thread	Condition
0-285'	0-285'	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3497	0-3497'	8-3/4"	7"	K-55	23#	LTC	New

0- TD	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 halo conditions distate on alternate consent desires

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'-3,497'	Water/ Mud	8.4-9.0	29-70	8.0	NC	
3,497' - 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

