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

Submit to appropriate District Office

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

☐ AMENDED REPORT

Form C-101

May 27, 2004

APPI	LICATI	ON FOI				ENTER	, DEEPEN	, PLUGBA		DD A ZONE
		Devo	Operator Name n Energy Product	ion Comna	ss ny, L.P.			6137	² OGRID Num	
			PO Box Navajo Dam, N	5459 IM 87419				30 - 045-33	³ API Numbe 3305	er
³ Prope	erty Code				⁵ Property !					Vell No.
	19641				Northeast Blan	nco Unit				49M
⁹ Proposed Pool 1								•	osed Pool 2	
Basin Dakota ⁷ Surface I						Location		Віапсо	Mesaverde	
UL or lot no.	Section	Township	Range	Lot I			orth/South line	Feet from the	East/West line	County
Н	30	31N	7W		2,45		North	2'	East	San Juan
			⁸ Propo	sed Botto	om Hole Locat	ion If Dif	ferent From S	Surface		
UL or lot no.	Section	Township	Range	Lot I	i	1	orth/South line	Feet from the	East/West line	County
1	30	31N	7W	A d	ditional Wa		South	870'	East	San Juan
11 Work	Type Code	1	12 Well Type Co		ditional We			Lease Type Code	15 C	round Level Elevation
W OIK	N		G		Rot	-		Private		6,382'
¹⁶ N	Aultiple		17 Proposed Dep	th	18 Form			19 Contractor		²⁰ Spud Date Unknown
Depth to Gro	N undwater >	-100°	8,275	Distance	Dakota/Me from nearest fres			Distance from	m nearest surface	
	r: Synthetic		nils thick Clay							
	-		alis thick Clay	☐ Pit Ve	olume:bbk	S	Drilling Met			7 a 5 7
Clos	ed-Loop Sy	stem 🔲	21		10	1.0		☐ Brine ☐ Di	esel/Oil-based	Gas/Air 🔀
		T		Propos	ed Casing a	nd Cem	ent Progran	<u>n</u>	- 	
Hole S	Size	Cas	ing Size	Casing weight/foot S		Setti	ng Depth	Sacks of C	ement	Estimated TOC
12.5		9	5/8"	32#			-285'	200		Surface
8 3/			7"	23#			0-3.776'			Surface
6 1/4	4	4	1/2"	11.6#			0-TD			Surface
Describe the	blowout p	revention pro	gram, if any. Us	e additiona	l sheets if necessa	ary. onal drilling	of this well, a l	etter is attached w		ed new productive zone.
²³ I hereby ce	ertify that th	e informatio						ONSERVA	FION DIVI	SION SION
23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ⊠, a general permit □, or an (attached) alternative OCD-approved plan □. Sign:						Approved		MA	HONDIVI	SION
Printed name	e: Melisa Z	immerman				Title: 0	EPUTY OIL	EXCINETECT	OR, DIST.	4
Title: Senior	r Operations	Technician		-		Approval	Date OCT	2.0 2005	Expiration Date:	OCT 2 0 20
E-mail Addre	ess: Melisa	.zimmerman	@dvn.com				₩	S C COSO		
Date: /0-	19-0	5	Phone: 505-	532-0244	-	Conditions of Approval Attached				

District I PO Box 1980, Hobbs NM 88241-1980

PO Drawer KK, Artesia, NM 87211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

District III

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		¹ Pool Code	' Pool Name				
30-045-38	3305 7	1599 + 72319	Basin Dakota + Slanco	Mesaverde			
¹ Property Code			Property Name	* Well Number			
19641	NEB	\mathbf{U}		# 49M			
OGRID No.		* (Operator Name	* Elevation			
4137	Devo	on Energy Producti	ion Company, L.P.	6382			

Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	30	31 N	7 W		2450	NORTH	2	EAST	SAN JUAN

" Bottom Hole Location If Different From Surface

Bottom Hole Location it Different From Surface										
' UL or lot no.	Section	Townshi	ip Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
I	30	31 N	7 W		1990	SOUTH	870	EAST	SAN JUAN	
12 Dedicated Acres		t or Infill	14 Consolidation	n Code 15	Order No.	204/	NA			

(3) 70° (A) 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

1320(R) 323(R) **OPERATOR CERTIFICATION** hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Lot 5 0 0 Lot 6 m SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me Azimuth -225°56' 1208', or under my supervision, and that the same is true and correct to the best of my belief. Rev Btm Hole: April 24, 2005 Restaked: April 7, 2005 November 8, 2004 Lot 9 Bottom Hole Location 1990' F/SL 870' F/EL Date of Survey Signature and Seal of Professional Surveyor D Lot 10 7016 WARRES HOWN Certificate Number 1320'(R)

(R) - GLO Record

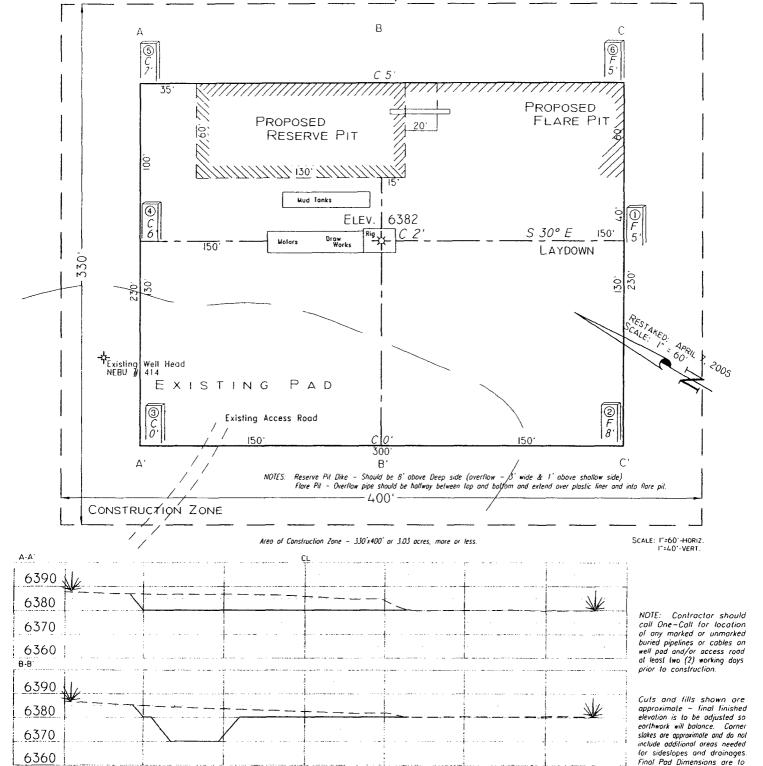
Office '	State of New M			Form C-103
District I	Energy, Minerals and Nat	ural Resources	WELL API NO.	March 4, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		A DW HOLON	30-045-33305	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type	of Lease
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fra		STATE	☐ FEE ☐
District IV	Santa Fe, NM 8	37505	6. State Oil & G	as Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			SF 080557	
SUNDRY NOTION	CES AND REPORTS ON WELL		7. Lease Name of	or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSE DIFFERENT RESERVOIR. USE "APPLIC			NORTHEAST I	DI ANCO UNIT
PROPOSALS.)	,		8. Well Number	
1. Type of Well: Oil Well ☐ Gas Well ☒	Other		49M	
	Other		0. OCDID N	1
2. Name of Operator Devon En	ergy Production Company, L.P		9. OGRID Num 6137	ber
3. Address of Operator	org, from company, 201	•	10. Pool name o	or Wildcat
PO Box 6459, Navajo Dam, NM	87419		II.	Blanco Mesaverde
4. Well Location			.	
Unit LetterH:2	2,450'feet from theNorth	line and2'feet	from theEast	line
Section 30 Townsh	nip 31N Range 7W	NMPM	County - S	SAN HIAN
Section 30 Towns				DANJUAN
	GR 6,382'	,,,,,		8
Pit or Below-grade Tank Application (For		m C-144 must be attache	ed)	
Pit Location: UL_H_Sect_30_Twp_3	1N_Rng_7W_ Pit type_Drilling_I	Depth to Groundwater_>	·100'_Distance from no	earest fresh water well_>1000'_
Distance from nearest surface water_>10	000'_ Below-grade Tank Location UL	SectTwr	Rng;	;
feet from theline and	feet from theline			
10 01 1 4	'	AT A CAT A'	D (0.1	T
	appropriate Box to Indicate	· ·	*	
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PAD LAYOUT PLAN & PROFILE DEVON ENERGY PRODUCTION COMPANY, L.P.

Nebu # 49M 2450' F/NL 2' F/EL SEC. 30, T31N, R7W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO Lat: 36.8711° Long: 107.6033°

Lat: 36°52'16" Long: 107°36'12"



C-C.

6390 6380

6370

6360

VANN SURVEYS P. O. Box 1306 Farmington, NM

be verified by Contractor.



Devon Energy Corporation 20 North Broadway Oklahoma City, OK 73102-8260

October 19, 2005

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
Attn: Steve Hayden
1000 Rio Brazos Road
Aztec, NM 87410

Re: NEBU 49M

Dear Mr. Hayden,

The first APD submitted by Devon Energy Production Company, LP had a bottom hole location of 1,990' FSL & 870' FEL. DEPCO was notified by the BLM that this bottom hole location would not be federal minerals but fee minerals. In speaking with our contractor DEPCO chose to move the bottom hole location to 2,150' FSL & 870' FEL (keeping the original depth) due to the surface location being 50% BOR and 50% BLM. At this time another directional plan was created and submitted with a sundry of the changes intended.

While the drilling rig was moving to the location of the 49M (over the weekend) it was noticed that the directional plan for this well was to steep. At this time a request was made for a more workable directional plan. Apparently the directional company inadvertently used the first directional plan with the incorrect bottom hole location. Thus the NEBU 49M is not on federal minerals but fee minerals.

Sincerely,

Melisa Zimmerman

Senior Operations Technician

Devon Energy Production Company, LP

Cc: The Bureau of Land Management



NEBU 49M Unit H 30-31N-7W San Juan Co., NM

DRILLING PLAN

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

Formation	TVD (ft)	TMD (ft)	Hydrocarbon/Water Bearing Zones
San Jose	Surface	Surface	
Ojo Alamo	2226	2402	Aquifer
Kirtland	2322	2510	
Fruitland	2815	3059	Gas
Pictured Cliffs Tongue	3226	3486	Gas
Pictured Cliffs Main	3317	3577	Gas
Lewis	3415	3676	Gas
Intermediate TD	3515	3776	
Mesaverde	4072	4333	Gas
Chacra / Otera	4451	4712	Gas
Cliff House	5257	5518	Gas
Menefee	5318	5579	Gas
Point Lookout	5599	5860	Gas
Mancos	5992	6253	Gas
Gallup	6924	7185	Gas
Greenhorn	7619	7880	
Graneros	7674	7935	Gas
Dakota	7794	8055	Gas
Paguate	7806	8067	
Cubero	7841	8102	
Oak Canyon	7894	8155	
Encinal Canyon	7910	8171	

Lower Encinal Canyon	7956	8217	
Burro Canyon	7988	8249	
Morrison	8014	8275	
TD	8014	8275	

^{*}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, which shows the size, 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:

TVD	TMD	Hole Size	Size	Grade	Weight	Thread	Condition
0-285	0-285	12- 1/4"	9-5/8"	H-40	32#	STC	New
0-3515	0-3776	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

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).

Production: 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.

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:

TVD Interval	TMD Interval	Туре	Weight (ppg)	Viscosity	рН	Water Loss	Remarks
0-285	0-285	Spud- foam	8.4-9.0	29-70	8.0	NC	FW gel, LSND or stiff foam
285-3515	285-3776	Air				NC	
3515 - TD	3776 – 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. 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.

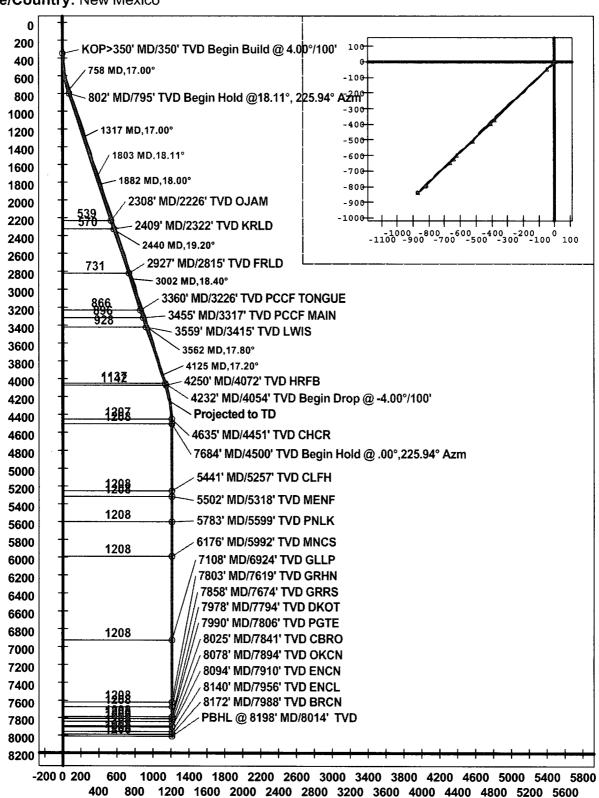
DST's: None anticipated.

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

Company: Devon Energy Lease/Well: NEBU 49M Location: San Juan County State/Country: New Mexico





Well Control Equipment 2,000 psi Configuration

