Form 3160-5 (February 2005)

# UNITED STATES OCD-ARTESIA

# DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an



FORM APPROVED OMB No 1004-0137 Expires March 31, 2007

5 Lease Serial No. NM-0375257-A

6 If Indian, Allottee or Tribe Name

#### abandoned well. Use Form 3160-3 (APD) for such proposals. 7 If Unit of CA/Agreement, Name and/or No SUBMIT IN TRIPLICATE - Other instructions on page 2 1 Type of Well FFB 28 2008 8. Well Name and No. Oil Well Gas Well Other Avalon Hills 7 Fed Com 4 OCU-ARTESIA 2. Name of Operator Devon Energy Production Co., LP 3a. Address 3b Phone No (include area code) 10 Field and Pool or Exploratory Area 20 North Broadway OKC, OK 73102 Burton Flat: Morrow (405)-552-7802 4 Location of Well (Footage, Sec., T.R., M., or Survey Description) SESE 460 FSL & 360 FEL 11 Country or Parish, State Eddy County, NM Sec 7-T21S-R27E Lot P 12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Production (Start/Resume) Water Shut-Off Acidize Deepen ✓ Notice of Intent Well Integrity Reclamation Alter Casing Fracture Treat Downhole Other Casing Repair New Construction Recomplete Subsequent Report Commingle Temporarily Abandon \_\_ Change Plans Plug and Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13 Describe Proposed or Completed Operation Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection ) Devon Energy Production Company, L.P. is applying with the New Mexico Oil Conservation Division to downhole-commingle the Burton Flat: Atoka (Gas). Pool code # 73106 (10,440' - 10,456') with the Burton Flat; Morrow East Gas: Pool code #73320 (11,211'-11;277'). The commingling will not reduce the value of the total production. Ownership in the zones is uniform. The proposed allocations are as follows: Burton Flat, Atoka (Gas): Pool code #73106 Gas 50% Oil 100% Burton Flat, Morrow East Gas Pool code #73320 Gas 50% Oil 0% FEB 2 1 2008 Current and proposed wellbore schematics are attached along with the allocation methods and supporting data. LES BABYAK SUBJECT TO LIKE PETROLEUM ENGINEER APPROVAL BY STATE 14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stephanie A. Ysasaga Title Sr. Staff Engineering Technician Date 01/08/2008 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by Date Title Conditions of approval, if any, are attached Approval of this notice does not warrant or certify

Office

Title 18 U S C Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false,

(Instructions on page 2)

entitle the applicant to conduct operations thereon

that the applicant holds legal or equitable title to those rights in the subject lease which would

fictitious or fraudulent statements or representations as to any matter within its jurisdiction

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO

ABOVE THIS LINE FOR DIVISION USE ONLY

### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -



9 9 9	r end	g .	/	Stephanie.Ysasaga@dvn.com e-mail Address	
Print o	or Type Name	Signature	(/	Title	Date
applic Stepha	ation until the re Note	quired information and	notifications are subm	nitted to the Division.  managerial and/or supervisory capacit  Sr Staff Engineering Technician	t <b>y.</b> 01/11/2008
[4]		, ,		submitted with this application for also understand that <b>no action</b> wi	
[3]		CURATE AND COM ATION INDICATED		TION REQUIRED TO PROCE	SS THE TYPE
	[F]	Waivers are Att	ached		
	[E]	For all of the ab	ove, Proof of Notificat	tion or Publication is Attached, ar	nd/or,
	[D]	Notification and	/or Concurrent Appro	val by BLM or SLO c Lands, State Land Office	
	[C]	Application is C	one Which Requires Po	ublished Legal Notice	
	[B]	Offset Operator	s, Leaseholders or Sur	face Owner	
[2]	NOTIFICAT [A]		: - Check Those Whic ty or Overriding Roya	h Apply, or 🔀 Does Not Apply lty Interest Owners	
	[D]	Other: Specify			
	[C]	Injection - Disposal - WFX PM		nhanced Oil Recovery IPI	
	Check [B]	COne Only for [B] or [COMMING COMMING	ige - Measurement	C OLS OLM	
[1]	TYPE OF A	PPLICATION - Check Location - Spacing U NSL NSI	Init - Simultaneous De		E COPY
		lified Enhanced Oil Re	-		sponsej
жррп	[NSL-Non-Sta [DHC-Dow [PC-Po	ndard Location] [NSP nhole Commingling] ool Commingling] [O [WFX-Waterflood Exp [SWD-Salt Water	[CTB-Lease Commin LS - Off-Lease Storag ansion] [PMX-Press Disposal] [IPI-Injec	e] [OLM-Off-Lease Measurem sure Maintenance Expansion] ction Pressure Increase]	ningling] ent]
	THIS CHECKLIST IS N cation Acronym	WHICH REQUIRI	IISTRATIVE APPLICATIONS E PROCESSING AT THE DIV	FOR EXCEPTIONS TO DIVISION RULES A ISION LEVEL IN SANTA FE	ND REGULATIONS
			<u> </u>	ATION CHECKLIST	
		-	ancis Drive, Santa Fe,	NM 87505	

FILE COPY

#### APPLICATION FOR DOWHOLE COMMINGLING DEVON SUMMARY & INTENTIONS AVALON HILLS 7 FED COM 4

State of New Mexico – Santa Fe Oil Conservation Division 1220 S. St Francis Drive Santa Fe, New Mexico 87505

Well is currently completed in the Atoka zone. Well was spud 06/07/07. The Morrow initially produced 225 - 315 mcfd for about 17 days with a FTP of 450 psig. Devon set a composite plug @ 11,180' on 12/18/07 to enable testing and stimulation of the Atoka. The Atoka is currently producing on the average 800 mcfd with a FTP of 550 psig.

Current perforations are as follows:

- Burton Flat; Atoka (Gas): 10,440' 10,456'
- Burton Flat; Morrow East Gas: 11,211' 11,277'

Devon would like to project what we believe our allocation would be, versus fix an allocation based on past production. The gas allocation would be 50% to the Morrow and 50% to the Atoka. The oil allocation would be 0% to the Morrow and 100% to the Atoka. We are anticipating this will be acceptable.

All working, royalty and overriding royalty interests are identical in all commingled zones. All produced fluids from all commingled zones are compatible with each other. Commingling will not decrease the value of production.

Attached for your full review:

- Administrative Application Checklist
- Form 3160-5: NOI Downhole Commingle
- Form C-107A: Application for Downhole Commingling
- Gas BTU's: Atoka & Morrow Zones
- Letter verifying uniform interests in Atoka & Morrow zones
- C-102's: Atoka & Morrow
- Current schematic
- Proposed downhole commingling Atoka & Morrow zones schematic
- Daily production for Morrow & Atoka zones
- Completion papers filed with BLM for Morrow zone
- Completion papers filed with the BLM for Atoka zone

Signed: Stephanie A Ysasaga
Title: Sr. Staff Engineering Technician

Date: January 16<sup>th</sup>, 2008

# District I 1625 N Ficucli Drive Hobbs NM 88240

District II

1301 W. Grand Avenue. Artesia. NM 88210

District III 1000 Rio Biazos Road Aztec NM 87410

District IV

1220 S St Francis Dr. Santa Fe NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Revised June 10, 2003

**Oil Conservation Division** 

1220 South St. Francis D Santa Fe, New Mexico 87

APPLICATION TYPE

Form C-107A

### APPLICATION FOR DOWNHOLE CO

Jr.	Single	e Well
7505	Establish Pre-Approved	Pools
	EXISTING WELLI	30RE
MMINGLING	Yes	No

DEVON ENERGY PRODUCTION CO., Operator		VAY OKC, OK 73102-8260 dress	
Avalon Hills 7 Fed Com 4	Well No Unit Letter-	Sec 7-T21S- R27E -Section-Township-Range	Eddy County
OGRID No6137 Property Co		015-35583 Lease TypeFed	deral X State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Burton Flat, Atoka (Gas)		Burton Flat, Morrow East Gas
Pool Code	73106		73320
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10,440' – 10,456'		11,211' - 11,277'
Method of Production (Flowing or Artificial Lift)	FL		FL
Bottomhole Pressure (Note Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	Gas BTU 1115		Gas BTU 1009
Producing, Shut-In or New Zone	Producing		Under Composite Plug as of 12/18/07
Date and Oil/Gas/Water Rates of Last Production. (Note For new zones with no production history, applicant shall be required to attach production	Date: 01/19/08	Date:	Date: 12/17/07
estimates and supporting data )	Rates: 0 oil/624 mcf/23 wtr	Rates:	Rates: 0 oil/62 mcf/0 wtr
Fixed Allocation Percentage (Note If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required )	100% 50%	% %	0% 50%
	ADDITIO	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and ove			YesX No Yes No
Are all produced fluids from all commu	ngled zones compatible with each o	other?	YesX No
Will commingling decrease the value of	î production?		Yes No_X
f this well is on, or communitized with or the United States Bureau of Land Ma			Yes NoX
NMOCD Reference Case No. applicable	e to this well		
Attachments:  C-102 for each zone to be comming Production curve for each zone for a For zones with no production history Data to support allocation method on Notification list of working, royalty Any additional statements, data or described to the comments.	at least one year (If not available, y, estimated production rates and sor formula. and overriding royalty interests for	attach explanation.) upporting data. r uncommon interest cases.	
	PRE-APPRO	VED POOLS	
If application is t	o establish Pre-Approved Pools, th	ne following additional information wi	Il be required:
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the propo Bottomhole pressure data.	Pre-Approved Pools	• •	
hereby certify that the information	above is true and complete to t	he best of my knowledge and belie	ef.
SIGNATURE // //	// TITLE Sr. Staf	f Engineering Technician DAT	ΓΕ 01/16/2008
TYPE OR PRINT NAMESteph	nie A. YsasagaTELEPHO	NE NO(405)-552-7802_	
E-MAIL ADDRESSStephanie/Y	/sasaga@dvn.com		



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260 Fax 405-552-8113

January 11, 2008

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Downhole Commingling Avalon Hills 7 Fed Com #4 S/2 Section 7-T21S-R27E Eddy County, New Mexico

#### Gentlemen:

I have reviewed the files of Devon Energy Production Company, L.P. regarding the ownership of the referenced well and find that the ownership of the working interest, royalty and overriding royalty interest are uniform with respect to Devon's request to downhole commingle the following pools/intervals:

Burton Flat; Atoka (Gas) Pool Code: 73106 Perforations @ 10,440' – 10,456' Burton Flat; Morrow East (Gas) Pool Code: 73320 Perforations @ 11,211' - 11,277'

If there are any questions or if additional information is required feel free to call me at (405) 552-4633.

Yours very truly,

DENON ENERGY PRODUCTION COMPANY, L.P.

Ken Gray

Senior Land Advisor

Kg/

Enclosure

DISTRICT I 1626 N. French Dr., Hobbe, NM 88240 DISTRICT II 1301 V. Grand Avenue, Arlesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised October 12, 2005

The state of the state of the contract of the

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

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

Historial Company of the second secon

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API			Pool Code Pool Name 73280 BURTON FLAT; MORROW							
Property	Code				Property Nan	ne		Well N	Well Number	
				AVALO	N HILLS "7"	FED COM		4		
OGRID N	0.				Operator Nan	10		Eleva		
6137		}	DEVON	I ENERG	SY PRODUCT	ION COMPANY	LP	321	1'	
	Surface Location									
UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County	
Р	7	21 S	27 E		460	SOUTH	360	EAST	EDDY	
			Bottom	Hole Loc	cation If Diffe	rent From Sur	face			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
P	7	21S	27E	27E		SOUTH	685	EAST	EDDY	
Dedicated Acres	Dedicated Acres Juint or Infill Consolidation Code Order No.									
320		(		İ						

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

<u></u>	OR A NON-STANDARD UNIT	HAS BEEN APPROVED BY TI	HE DIVISION
			OPERATOR CERTIFICATION
			I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a foluntary pooling agreement or a computer of working proper heretofore entered by the diskiph.
	Project a.	eu.	SWEPHANIE A. YSASAGA
		Producing ana	
	——————————————————————————————————————		SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
		SURFACE LOCATION   Lat - N32'29'19.2"   Long - W104'13'18.3"   (NAD-83)	Date State 1007
		BHL. 0 ← 685' → 3215.7'	Professional Surveyor
		0360 0360 09 SL	Certificate No. Gary L. Jones 7977
Y # #	7 1	3\$10.3\$	Basin surveyS

DISTRICT I

Р

A.D. S. Charles Sale Sale and Control of the Contro

1625 N. French Dr., Hobbo, NM 88240

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1228 S. St. Francis Dr., Santa Fe, NM 87505

7

21 S

27 E

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

#### OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

☐ AMENDED REPORT

**EDDY** 

**EAST** 

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API N	API Number			Pool Code		BURTON FLAT; ATOKA GAS					
Property Co	Property Code				Property Name					umber	
}	AVALON HILLS "7" FED COM						4	4			
ogrid No.					Operator	erator Name				Elevation	
6137	6137 DEVON ENERGY PRODUCTION COMPANY LP					3211'					
	Surface Location										
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County	

#### 460 Bottom Hole Location If Different From Surface

SOUTH

360

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	21S	27E		960	SOUTH	685	EAST	EDDY
Dedicated Acres   Joint or Infill   Consolidation Code				ode Ord	ler No.				
320				1					

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

					OPERATOR CERTIFICATION
					I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased minaral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a solutulary pooling agreement or a compulsylor pooling order hafetofore entered by the disjoint.
		Proje	et Grew		SVEPHANIE A. YSASAGA Phinted Name
		/	וַרָּילָּמוֹ	veing ama	
	1/	1	z / /		SURVEYOR CERTIFICATION
	1 21 4	i // //	// //	1 4	I hereby certify that the well location shown
		·	<b>√</b>		on this plat was plotted from field notes of actual surveys made by me or under my
	: (			1	supervison and that the same is true and correct to the best of my belief.
11	ì			SURFACE LOCATION 7	1445
$\ $	,	1	i	Long - W104*13*18.3"	Date Side Par Cap 2007
	<u>/</u>	<u></u>		(NAD-83)	Signature
11	ţ.	ĺ	ĺ	BHL	Profession Surveyor
	)			Q 685' -> 3215.7'	THE SOME !
U	•		, 		845
			 	09 03607 09 SL 10.3 3221.3	Certificate No. Gary L. Jones 7977
W	,	<u> </u>		3210.3 3221.3	Basin surveyS
<i>y</i> _	<del></del>	·		7	

AVALON HILLS	7 FEDERA	AL COM 4.	- MORROW	/ PRODUCT	ION	
Completion Name	Date	Actual Oil Production	Actual Gas Production	Actual Water Production	Choke	Tubing Pressure
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/1/2007	0	250	6	17	560
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/2/2007	0	242	5	17	540
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/3/2007	0	246	5	17	540
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/4/2007	0	241	8	17	550
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/5/2007	0	242	6	17	550
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/6/2007	0	243	11	17	550
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/7/2007	0	241	6	17	550
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/8/2007	0	226	5	17	550
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/9/2007	0	244	6	17	540
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/10/2007	0	284	7	17	500
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/11/2007	0	317	8	17	500
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/12/2007	0	235	6	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/13/2007	0	234	6	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/14/2007	0	231	6	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/15/2007	0	233	11	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/16/2007	0	250	4	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/17/2007	0	62.17	0	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/18/2007	0	0	0	17	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/19/2007	0	0	0	15	450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/20/2007	0	D O	0	15	1450
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/21/2007	0	D D	0	15	1350
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/22/2007	0	O	0	17	1300
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/23/2007	0	i)	0	17	1300
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/24/2007	0	.j	0	17	1300
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/25/2007	0	Ú	0	17	1240
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/26/2007	0	0	0	17	1180
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/27/2007	0	0	0	17	1000
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/28/2007	0	0	0	17	1150
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/29/2007	0	0	0	17	1000
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/30/2007	0	0	0	17	940
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	12/31/2007	0	0	0	17	900
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/1/2008	0	0	0	17	860
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/2/2008	0	0	0	17	820
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/3/2008	0	0	0	17	800
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/4/2008	0	0	0	17	800
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/5/2008	0	0	0	17	800
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/6/2008	0	0	0	17	740
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/7/2008	0	0	0	17	600

\_\_\_\_\_

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AVALON HILLS 7 FEDERAL COM 4 - MORROW PRODUCTION									
Completion Name	Date	Actual Oil Production	Actual Gas Production	Actual Water Production	Choke	Tubing Pressure			
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/8/2008	0	0	0	17	650			
AVALON HILLS 7 FEDERAL COM 4 (MORROW)	1/9/2008	0	0	0	17	650			

# AVALON HILLS 7 FEDERAL COM 4 - ATOKA PRODUCTION

	<u> </u>				<del> </del>	
Completion Name	Date	Actual Oil Production	Actual Gas Production	Actual Water Production	Choke	Tubing Pressure
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/1/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/2/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/3/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/4/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/5/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/6/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/7/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/8/2007	0	C	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/9/2007	0	C	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/10/2007	0	C	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/11/2007	0	C	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/12/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/13/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/14/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/15/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/16/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/17/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/18/2007	0	0	0	0	0
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/19/2007	0	287.5	3	15	600
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/20/2007	0	173	0	15	1450
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/21/2007	0	756	6	15	1350
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/22/2007	10.363	1565	0	17	1300
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/23/2007	10.362	1564	6	17	1300
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/24/2007	18.135	1583	11	17	1300
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/25/2007	0	1704	9	17	1240
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/26/2007	7.772	1805	5	17	1180
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/27/2007	5.181	1792	6	17	1000
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/28/2007	5.182	1676	6	17	1150
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/29/2007	10.363	1705	10	17	1000
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/30/2007	25.906	1671	6	17	940
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	12/31/2007	25 907	1610	6	17	900
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	1/1/2008	25.907	1511	35	17	860
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	1/2/2008	20.725	1337	36	17	860
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	1/3/2008	2.591	1341	8	17	860
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	1/4/2008	0	1254	19	17	860
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	1/5/2008	0	1142	11	17	860
AVALON HILLS 7 FEDERAL COM 4 (ATOKA)	1/6/2008	5.181	978	30	17	740

#### AVALON HILLS 7 FEDERAL COM 4 - ATOKA PRODUCTION **Actual Oil Actual Gas Actual Water** Completion Name Date Production Production Production Choke **Tubing Pressure** 1/7/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/8/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/9/2008 2.591 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/10/2008 2.59 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/11/2008 2 591 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/12/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/13/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/14/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/15/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/16/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/17/2008 AVALON HILLS 7 FEDERAL COM 4 (ATOKA) 1/18/2008

1/19/2008

AVALON HILLS 7 FEDERAL COM 4 (ATOKA)

#### Ysasaga, Stephanie

From:

Pittman, Jack

Sent:

Monday, January 14, 2008 10:01 AM

To:

Ysasaga, Stephanie

Subject:

RE: Avalon Hills 7 Fed Com 4: DHC Atoka & Morrow Zones Application

Attachments: Delta 12 M Fee 2 Morrow.tif. Delta 12M Fee #2 Atoka tif

#### Stephanie,

These should give you what you need for the BTU's and I'm going to catch a new sample on the Avalon Hill 7 Fed #4, its been so up and down due to workover we have not caught one yet I will get it to you asap.

Thank you,

Jack W. Pittman Field Measurement Coordinator **Devon Energy** Artesia, New Mexico

Office: (505)748-0186 Cell: (505)513-1740

From: Ysasaga, Stephanie

Sent: Friday, January 11, 2008 1:38 PM

To: Pittman, Jack

Subject: Avalon Hills 7 Fed Com 4: DHC Atoka & Morrow Zones Application

Hi Jack,

Long time no hear of right??? I need to see if I can Gas BTU's for the Atoka & Morrow and backup for the gas test for the above. Thanks... ©

Stephanie A. Ysasaga

Sr. Staff Engineering Technician (405)-552-7802 Phone (405)-721-7689 Cell (405)-552-8113 Fax Corporate Tower 03.056 Stephanie Ysasaga@dvn.com

## Varian Star Chromatography Workstation

### Natural Gas Analysis Report



Run File	C:\STAR\DATA\DEV	ON06_9;54;08 AM_10-17-	07RUN	
Method	C:\Star\BTUC6+.mth			
Operator	Precision Gas Meas 88533080		Analysis Date Company	10/17/07 DEVON ENERGY
Station #				
Lease	DELTA 12 M FEE 2 M	IORROW	Pulled Data	10/16/07 PRESS 550 TEMP 90
Producer	DEVON ENERGY		Water (Ibs)	
Component	Mole %	<u>GPM</u>		
H2S	0.000	0.0000		
nitrogen	0.317	0.0000		
methane	95.886	0.0000		
propane	0.376	0.1037		
i-butane	0.052	0.0170		
n-butane	0.061	0.0194		
carbon dioxide	1.210	0.0000		
i-pentane	0.025	0.0091		
n-pentane	0.015	0.0053		
ethane	1.970	0.5268		
hexane+	0.088	0.0377		
Totals	100.0000	0.7191		
Relative Density from Composition		0.5872		
Lab Density Test Value				
BTUs @ 14.73 Saturated	I	1,009		
BTUs @ 14.73 Dry		1,027		

0.99785

Compressibility

# Varian Star Chromatography Workstation

# Natural Gas Analysis Report

Run File	C:\STAR\DATA\DEVO	ON12_10;14;03 AM_4-17-	06RUN	
Method	C:\Star\BTUC6+.mth			
Operator	JD		Analysis Date	4/17/06
Station #	885-33-059		Company	DEVON ENERGY
Lease	DELTA M12 FEE 2 ATOKA		Pulled Data	04/13/06 PRESS 446 TEMP 82
Producer	DEVON ENERGY		Water (Ibs)	
Component	Mole %	GPM		
H2S	0.000	0.0000		
nitrogen	0.804	0.0000		
methane	92.463	0.0000		
propane	1.113	0.3066		
i-butane	0.319	0.1045		
n-butane	0.317	0.1000		
carbon dioxide	0.404	0.0000		
i-pentane	0.159	0.0584		
n-pentane	0.088	0.0319		
ethane	4.069	1.0881		
hexane+	0.264	0.1136		
Totals	100.0000	1.8030		
Relative Density from Composition		0,6153		
Lab Density Test Value				
BTUs @ 14.73 Saturate	d	1,064	_	4
BTUs @ 14.73 Dry		1,083	CF	M/
Compressibility		0,99757	Y'	
•				

Ysasaga, Stephanie
From: Potter, Tracy
Sent: Thursday, January 17, 2008 9:31 AM
To: Ysasaga, Stephanie
Subject: Avalon Hills 7 Fed. #4

Attachments: Avalon Hills 7 Fed. #4.tif

If you have any questions, please let me know.

Thank you,

Tracy Potter for Mr. Jack Pittman

Avalon Hills 7 Fed.

#4.tıf (27...



# Laboratory Services, Inc.

2609 West Marland Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Devon Energy

Attention: Jack Pittman

P.O. Box 250

Artesia, New Mexico 88211-0250

SAMPLE DATA: DATE SAMPLED 1/14/08

ANALYSIS DATE: 1/15/08 PRESSURE - PSIG 453

SAMPLE TEMP. °F 98.6 ATMOS, TEMP. °F 64

REMARKS H2S = 1 PPM

> Pressure Base: 14.65 Vol. 1,090 MCF/Day

SAMPLE:

Sta. # 885-12-097 IDENTIFICATION Avalon Hills 7 Fed. #4

COMPANY: Devon Energy

LEASE: PLANT:

GAS (XX)

LIQUID ( )

SAMPLED BY. Rob

ANALYSIS BY: Vicki McDaniel

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide Nitrogen Carbon Dioxide	(H2S) (N2) (CO2)	0.743 0.546	
Methane Ethane	(C1) (C2)	88.972 5.329	1.422
Propane	(C3)	2.035	0.559
I-Butane N-Butane	(IC4) (NC4)	0 459 0.580	0.150 0.182
I-Pentane N-Pentane	(IC5) (NC5)	0.233 0.199	0.085 0.072
Hexane Plus	(C6+)	0.904	0.392
		100.000	2.862

BTU/CU.FT. - DRY 1138 AT 14 650 DRY 1135 AT 14 650 WET 1115 AT 14.73 DRY 1141 AT 14.73 WET 1121

SPECIFIC GRAVITY ~

CALCULATED 0.653 MEASURED

MOLECULAR WT 18 9710